

Old Champlain Mill
WASHINGTON COUNTY, NEW YORK

Final Engineering Report

NYSDEC Site Number: C558036

Prepared for:

POULTNEY STREET PARTNERS, LLC

557 ROUTE 23 SOUTH

WAYNE, NEW JERSEY 07470

Prepared by:

C.T. MALE ASSOCIATES ENGINEERING, SURVEYING,
ARCHITECTURE & LANDSCAPE ARCHITECTURE, D.P.C

50 Century Hill Drive

Latham, New York 12110

(518) 786-7400

DECEMBER 2017

CERTIFICATIONS

SITE MANAGEMENT PLAN
OLD CHAMPLAIN MILL
WHITEHALL, NEW YORK

I, Jeffrey A. Marx, P.E., am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Action Work Plan was implemented and that all construction activities were completed in substantial conformance with the Department-approved Remedial Action Work Plan.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the Remedial Action Work Plan and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the Department.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

C.T. MALE ASSOCIATES

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Jeffrey A. Marx, P.E., of C.T. Male Associates, am certifying as Owner's Designated Site Representative for the site.

082100

NYS Professional Engineer #

12/21/2017

Date



TABLE OF CONTENTS

CERTIFICATIONS.....	II
TABLE OF CONTENTS	IV
LIST OF ACRONYMS	VI
FINAL ENGINEERING REPORT	1
1.0 BACKGROUND AND SITE DESCRIPTION.....	1
2.1 REMEDIAL ACTION OBJECTIVES	2
2.1.1 Groundwater RAOs.....	2
2.1.2 Soil RAOs.....	2
2.1.3 Soil Vapor	3
2.2 DESCRIPTION OF SELECTED REMEDY	3
3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS	6
4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED	7
4.1 2017 GROUNDWATER MONITORING	7
4.2 REMEDIAL PROGRAM ELEMENTS	8
4.2.1 Contractors and Consultants	8
4.3 REMEDIAL PERFORMANCE/DOCUMENTATION SAMPLING	9
4.3.1 Analytical Results	9
4.3.2 Data Validation	10
4.3.3 Isoconcentration Contour Map.....	10

4.4	CONTAMINATION REMAINING AT THE SITE	11
4.4.1	Surface Soil.....	11
4.4.2	Subsurface Soils	12
4.4.3	Sediment.....	12
4.4.4	Groundwater (Pre-2017).....	13
4.4.5	Surface Water	13
4.4.6	Soil Vapor	14
4.4.7	Summary.....	14
4.5	OTHER ENGINEERING CONTROLS.....	14
4.6	INSTITUTIONAL CONTROLS.....	15
4.7	DEVIATIONS FROM THE REMEDIAL ACTION WORK PLAN.....	15

List of Tables (in Table Section)

Table 4.3.1-1 – 2017 Groundwater Analytical Data (All Results)
Table 4.3.1-2 – 2017 Groundwater Analytical Data (Detected Compounds Only)
Table 4.3.1-3 – Historical Groundwater Analytical Summary

List of Figures

Figure 1 – Site Location Map
Figure 2 – Easement Survey
Figure 3 – Site Plan Showing Monitoring Wells
Figure 4 – Total VOCs in Groundwater (2017) Isoconcentration Contour Map

List of Appendices

Appendix A – Environmental Easement
Appendix B – Digital Copy of the FER (CD)
Appendix C – Agency Approvals
Appendix D – Data Usability Summary Reports
Appendix E – Laboratory Reports

LIST OF ACRONYMS

Acronym	Definition
ASP	Analytical Services Protocol
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CAMP	Community Air Monitoring Plan
CFR	Code of Federal Regulation
COC	Certificate of Completion
CP	Commissioner Policy
DER	Division of Environmental Remediation
DD	Decision Document
EC	Engineering Control
ECL	Environmental Conservation Law
EE	Environmental Easement
ELAP	Environmental Laboratory Approval Program
FER	Final Engineering Report
HASP	Health and Safety Plan
IC	Institutional Control
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYCRR	New York Codes, Rules and Regulations
OU	Operable Unit
PID	Photoionization Detector
PRR	Periodic Review Report
QA/QC	Quality Assurance/Quality Control
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI/FS	Remedial Investigation/Feasibility Study
SCG	Standards, Criteria and Guidelines
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SSD	Sub-slab Depressurization
SVMS	Soil Vapor Mitigation System
TAL	Target Analyte List
TCL	Target Compound List
USEPA	United States Environmental Protection Agency
VI	Vapor Intrusion

FINAL ENGINEERING REPORT

1.0 BACKGROUND AND SITE DESCRIPTION

Poultney Street Partners, LLC entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in September 2008, to investigate and remediate a 11.74-acre property located in Village of Whitehall, Washington County, New York. The property was remediated to commercial, industrial use development has not yet been planned.

The site is located in the County of Washington, New York and is identified as Block 60.6 and Lot 5 on the Washington County Tax Map. The site is situated on an approximately 11.74-acre area bounded by U.S. Route 4 (Poultney Street) to the north, The Clarendon and Pittsford Railroad Company railroad tracks to the south, Wood Creek to the east, and Champlain Canal to the west (see Figure 1). The boundaries of the site are fully described in Appendix A: Environmental Easement and Survey.

An electronic copy of this FER with all supporting documentation is included as Appendix B.

2.0 SUMMARY OF SITE REMEDY

2.1 REMEDIAL ACTION OBJECTIVES

The Remedial Action Objectives (RAOs) for the Site as listed in the Decision Document dated November 27, 2017 are as follows:

2.1.1 Groundwater RAOs

RAOs for Public Health Protection

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer, to the extent practicable, to pre-disposal/pre-release conditions.
- Prevent the discharge of contaminants to surface water.

2.1.2 Soil RAOs

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure to, contaminants volatilizing from contaminated soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

2.1.3 Soil Vapor

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a Site.

2.2 DESCRIPTION OF SELECTED REMEDY

The site was remediated in accordance with the remedy selected by the NYSDEC in the Decision Document dated November 27, 2017.

The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

1. Remedial Design:

A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows;

- considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- reducing direct and indirect greenhouse gases and other emissions;
- increasing energy efficiency and minimizing use of non-renewable energy;
- conserving and efficiently managing resources and materials;
- reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- maximizing habitat value and creating habitat when possible;
- fostering green and healthy communities and working landscapes which balance ecological, economic and social goals; and
- integrating the remedy with the end use where possible and encouraging green and sustainable re-development.

2. Monitored Natural Attenuation:

Groundwater contamination will be addressed with monitored natural attenuation (MNA). Groundwater will be monitored for site related contamination and also for MNA indicators which will provide an understanding of the biological activity breaking down the contamination. Natural anaerobic biodegradation at the site was evaluated by Hatch Mott MacDonald in January of 2013. Their evaluation of site data indicates natural and ongoing breakdown of chlorinated ethenes. It is anticipated that contamination will decrease by an order of magnitude in a reasonable period of time (5 to 10 years). Reports of the attenuation will be provided at 5 and 10 years, and active remediation will be proposed if it appears that natural processes alone will not address the contamination. The contingency remedial action will depend on the information collected, but it is currently anticipated that an in-situ chemical oxidation (ISCO) technology would be the expected contingency remedial action.

3. Institutional Control:

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allow the use and development of the controlled property for commercial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH; and
- require compliance with the Department approved Site Management Plan.

4. Site Management Plan:

A SMP is required, which includes the following:

- a. Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective. The plan includes, but may not be limited to:
 - an excavation plan which details the provisions for management of any future excavations on the site;
 - a provision for further investigation and remediation should any redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible. This includes areas of former buildings (currently concrete slabs) and the brick stack.
 - descriptions of the provisions of the environmental easement including any land use, and groundwater use restrictions;
 - a provision for evaluation of the potential for soil vapor intrusion in future buildings developed at the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
 - provisions for the management and inspection of the identified engineering controls;
 - maintaining site access controls and Department notification; and
 - the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.
- b. Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:
 - monitoring of the groundwater to assess the performance and effectiveness of the remedy;
 - a schedule of monitoring and frequency of submittals to the Department;
 - monitoring for vapor intrusion for any future building developed or prior to occupancy of current building on the site, as may be required by the Institutional and Engineering Control Plan discussed above.

3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS

The remedy for this site was as a single project, and no interim remedial measures, operable units or separate construction contracts were performed.

4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Due to the nature and extent of contaminants at the Site, no active remedial actions were necessary prior to receiving the Certificate of Completion as monitoring natural attenuation of groundwater was the prescribed remedial action. In order to document the environmental quality of the groundwater, a 2017 monitoring event was performed to establish current levels of contaminants in groundwater. Prior groundwater sampling events have been completed in 2007, 2010 (remedial investigation), 2012 and 2014 (supplemental investigation).

4.1 2017 GROUNDWATER MONITORING

The monitoring wells were purged and sampled on November 2, 3 and 6, 2017. A round of water levels was collected from the monitoring wells prior to any purging or sampling activities, utilizing a detergent/tap water decontaminated water level meter. Following completion of the round of water levels, the wells were purged with a peristaltic pump with new tubing at each location. Three (3) to five (5) well volumes of groundwater were purged from each well to remove fines from the well and reduce the turbidity of the groundwater. After purging, the wells were allowed to recover to static or near static water level conditions. Lab samples were collected utilizing the peristaltic pump with a direct transfer from the tubing to laboratory containers. Groundwater samples were collected for laboratory analysis for the Target Compound List (TCL) volatile organic compounds (VOCs).

Groundwater samples were collected in new laboratory supplied glass jars. Samples were placed in a cooler with ice and a transport blank, and were delivered to Alpha Analytical Laboratories field office following proper chain of custody protocols for their transportation to the analyzing office.

The twelve monitoring wells that were sampled including the following:

- MW-1A
- MW-2A
- MW-3A
- MW-5A
- MW-10A
- BMW-13A
- BMW-13A
- BMW-14A
- BMW-15A
- BMW-16A (in lieu of MW-4A)
- BMW-17A
- BMW-19A

4.2 REMEDIAL PROGRAM ELEMENTS

4.2.1 Contractors and Consultants

C.T. Male Associates Engineering, Surveying, Architecture & Landscape Architecture, D.P.C. (C.T. Male), a licensed professional engineering firm in the State of New York was the Engineer of Record for the design and implementation of the remedial action. C.T. Male completed the November 2017 groundwater monitoring event (sampling and analysis).

Alpha Analytical, Inc. (Alpha) of Westborough, MA performed the analysis of the groundwater samples. Alpha will be the Lab of Record for continued annual monitoring.

Environmental Data Services, Inc. (EDS) of Newport News, Virginia, performed the data validation of the analytical results for the groundwater samples.

4.3 REMEDIAL PERFORMANCE/DOCUMENTATION SAMPLING

4.3.1 Analytical Results

Three (3) summary tables were prepared using the laboratory analytical results, as follows:

- Table 4.3.1-1 – Summary of all of the VOCs analyzed.
- Table 4.3.1-2 – Summary of only those VOCs detected above the limit of laboratory detection and compared to their NYSDEC ambient water quality standard or guidance value.
- Table 4.3.1-3 – Historical summary of results for select compounds (2007, 2010, 2014 and 2017) and compared to their NYSDEC ambient water quality standard or guidance value.

As shown in Table 4.3.1-3, there is a general decline in the overall concentration of total VOCs site wide. The highest concentrations with a similar order of magnitude of VOCs in 2017 appear to be within monitoring wells MW-2A, MW-3A and BMW-19A whereby the concentrations were on the order of 1,780 ug/L to 2,022 ug/L. Historically, total VOCs concentrations were as high as 11,075 ug/L in 2007 (MW-2A) and 8,449 ug/L in 2010 (BMW-19A). This decline appears to show that the total VOCs in groundwater are being reduced over time.

There was a relatively high concentration of total VOCs within monitoring well BMW-13A that may be an outlier. This monitoring well is isolated from the rest of the monitoring wells where the contaminant plume is being monitored for natural attenuation. Total VOCs in 2017 were detected at 4,940 ug/L in BMW-13A, which was the highest recorded value for the sampling history at this well, although not the highest concentration detected on-site to date. Previous detections of total VOCs at BMW-13A were about 662 ug/L in 2010 and 802 ug/L in 2014. Additional sampling data from this well will need to be evaluated over time during the monitoring period.

4.3.2 Data Validation

Data Usability Summary Reports (DUSRs) were prepared for the data generated from the November 2017 groundwater sampling event. The groundwater samples were shipped to the laboratory on two separate days, thereby creating two laboratory data deliverable packages (L1740446 and L1740596), and ultimately two (2) separate DUSRs. These DUSRs are included in Appendix D, and associated original laboratory reports are provided electronically in Appendix E.

According to the DUSRs, there was no cause for rejections of the data. Furthermore, the data was acceptable with minor qualifications for the following deficiencies:

- L1740446 – Two compounds (1,2-Dichloropropane and 1,1,2,2-Tetrachloroethane) were qualified as estimated in all samples due to the high continuing calibration %D values, and three compounds (Vinyl Chloride, Trichloroethene) cis-1,2-Dichloroethene) were qualified as estimated in one sample due to low and high MS/MSD recoveries.
- L1740596 - Three compounds (Bromoform, Bromomethane and Styrene) were qualified as estimated in all samples due to the high continuing calibration %D values.

The validator's qualifiers are shown on the Form 1 analytical summary tables attached to the DUSRs, and were also added to Table 4.3.1-1 and where applicable on Table 4.3.1-2. The qualified data did not change the numeric values substantially.

4.3.3 Isoconcentration Contour Map

The laboratory analytical results for the groundwater samples collected in 2017 were used to prepare an isoconcentration contour map (Figure 4). These maps show the inferred size and magnitude of the total VOC contaminant plume based on inferred isopleths between wells that were sampled and analyzed. As shown on Figure 4, the contaminant plume is centralized around monitoring well MW-3A with the highest concentration of total VOCs at MW-3A, but with similar concentrations of total VOCs at

monitoring wells MW-2A and BMW-19A. In comparison to isoconcentration maps prepared for total VOCs in 2007 and 2010 (see Site Management Plan), the general horizontal extent of the contaminant plume is similar but the level of total VOCs concentrations are generally decreasing with time.

4.4 CONTAMINATION REMAINING AT THE SITE

Sampling and analysis of several media types was conducted during the Remedial Investigation (RI) and RI supplemental investigations to evaluate the nature and extent of contamination at the subject Site. These media types included surface soils, subsurface soils, surface water, sediment and groundwater. Additionally, analytical results of surface soils and groundwater from previous investigations of the Site prior to entering into the BCP were incorporated into the RI to aid in developing a broader sense of the nature and extent of Site contaminants.

Based on these investigations, the contaminants of concern (generally defined as compounds detected above commercial use soil cleanup objectives) at the Site are semi-volatile organic compounds (SVOCs) and arsenic in subsurface soils; and chlorinated volatile organic compounds (CVOCs), SVOCs and metals in groundwater. The distribution of contaminants exceeding SCGs in the various media-types sampled during the RI, and the distribution of total CVOCs in groundwater, is presented in the RI and Alternative Analysis (AA) Reports, which are available for review in the document repositories.

4.4.1 Surface Soil

There were four (4) SVOCs (benzo(a)anthracene benzo(b)fluoranthene, dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene) detected in surface soil above SCGs in only one (1) of the 18 sample locations (SS-1). There was another SVOC (benzo(a)pyrene) individually detected in only two other sample locations (SS-3 and SS-5) above SCGs. No VOCs, pesticides, PCBs and metals detected in surface soil above applicable SCGs. SVOCs detected in surface soil above SGCs were detected in only a

very small minority of sampling locations. Accordingly, surface soil is not a media that requires remedial action for this commercial and industrial use Site.

4.4.2 Subsurface Soils

Three (3) SVOCs and one (1) metal (Arsenic) were detected at concentrations exceeding their applicable SCGs for restricted (commercial) use sites at three (3) of the 13 subsurface sampling locations completed during the RI. The SVOC detections were confined to two (2) subsurface sampling locations in the vicinity of the Site's access road and parking lot for the former manufacturing building. The Arsenic detection was confined to two (2) shallow subsurface soil sampling locations adjacent to the former manufacturing building's footprint.

In comparison to SCGs for unrestricted use sites, four (4) VOCs, four (4) SVOCs and six (6) metals were detected at concentrations above the applicable SCGs at five (5) test boring and two (2) test pit locations.

No subsurface soil samples were submitted for laboratory analysis as part of the 2006 C.T. Male Phase II ESA and the 2007 C.T. Male Supplemental Phase II ESA. One (1) subsurface soil sample was collected from southern portions of the Site during the 2001/2002 URS Remedial Investigation/Feasibility Study of the Site's south adjoining property. The analytical results for this sample revealed three (3) VOCs above the laboratory method detection limits, but below SCOs for unrestricted use sites.

4.4.3 Sediment

Seven (7) metals were detected above SCGs in sediments sampled from the on-site wetlands. The metals (arsenic, cadmium, copper, iron, lead, nickel and zinc) were detected at concentrations above their NYSDEC Division of Fish, Wildlife and Marine Resources Bureau of Habitat lowest effects level (LEL) SCGs, but below their NYSDEC severe effects level (SEL) SCGs. The LEL is the concentration of a contaminant tolerated by 95% of benthic species. The SEL is the concentration of a contaminant tolerated by only 5% of benthic species. Considering none of the metals exceed the SEL

SCGs, and in most cases the concentrations of metals only slightly exceeded the LEL SCGs, implementing remedial action of sediments is not warranted. The impact to the wetland from implementing a remedial action is more detrimental to the ecological system than trying to obtain additional benefit to the 95% to 100% of the benthic species that can't currently tolerate the concentration of the detected metals.

4.4.4 Groundwater (Pre-2017)

Five (5) chlorinated VOCs, two (2) SVOCs and four (4) metals were detected at concentrations exceeding SCGs during the RI. The most prevalent chlorinated VOCs in groundwater included Vinyl Chloride which exceeded its SCG in nine (9) of 15 sampled wells and cis-1,2-Dichloroethene which exceeded its SCG in seven (7) of 15 sampled wells. The two (2) SVOCs were detected slightly above their SCG and were confined to monitoring well BMW-16A. The most prevalent metals in groundwater were Iron and Manganese.

Total VOCs in groundwater are dispersed across the Site with the highest concentrations in the northwestern portions of the Site in the general vicinity of monitoring well MW-2A and BMW-16A. See Figure 4, Total VOCs in Groundwater Isoconcentration Contour Comparison for 2007 and 2010 Groundwater Sampling.

The same chlorinated VOCs detected during the RI were also detected during the 2006 C.T. Male Phase II ESA and 2007 C.T. Male Supplemental Phase II ESA investigations. Based on inferred groundwater flow direction, it appears that groundwater contaminants may have migrated off-site in northwestern portions of the Site. The lands downgradient of the Site where impacts may be approaching is undeveloped New York State owned land.

4.4.5 Surface Water

Acetone (a VOC) and the metals (iron, manganese and sodium) were the only parameters detected above SCGs. Acetone (51 ppb) was detected above its SCG of 50 ppb at one (1) sampling location only. Iron was detected above SCGs in all of the surface

water samples. Manganese was detected above its SCG in two (2) of the four (4) surface water samples. Sodium was detected above its SCG in the surface water sample collected from Wetland 7, which is located in close proximity to NYS Route 4.

Metal contaminants include iron, manganese and sodium. Iron and manganese are viewed as naturally occurring in the environment. Sodium is likely attributed to application of road salt on the Site's northern adjoining US Route 4 and within the parking lots and roadways within the Site when in use for manufacturing uses. Based on the above information (and the absence of other VOCs, SVOCs, pesticides and PCBs above SCGs), potential adverse effects from surface water contaminants to on and off-Site populations are considered to be low. Therefore, surface water is not a media that requires remedial action for this commercial use Site.

4.4.6 Soil Vapor

Soil vapor samples have not been collected or analyzed.

4.4.7 Summary

Since contaminated soil and groundwater/soil vapor remains beneath the site after completion of the Remedial Action, Institutional and Engineering Controls are required to protect human health and the environment. These Engineering and Institutional Controls (ECs/ICs) are described in the following sections. Long-term management of these EC/ICs and residual contamination will be performed under the Site Management Plan (SMP) approved by the NYSDEC.

4.5 OTHER ENGINEERING CONTROLS

The remedy for the site did not require the construction of any other engineering control systems.

Procedures for monitoring, operating and maintaining any future Engineering Control systems are provided in the Operation and Maintenance Plan in Section 4 of the Site Management Plan (SMP). The Monitoring Plan also addresses inspection

procedures that must occur after any severe weather condition has taken place that may affect on-site ECs.

4.6 INSTITUTIONAL CONTROLS

The site remedy requires that an environmental easement be placed on the property to (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the site to restricted commercial and Industrial uses only.

The environmental easement for the site was executed by the Department on August 3, 2017, and filed with the Washington County Clerk on August 18, 2017. The County Recording Identifier number for this filing is 00114807. A copy of the easement and proof of filing is provided in Appendix A.

4.7 DEVIATIONS FROM THE REMEDIAL ACTION WORK PLAN

There were no deviations from the NYSDEC approved RAWP.

TABLE 4.3.1-1
2017 GROUNDWATER ANALYTICAL DATA
(ALL RESULTS)

Table 4.3.1-1
2017 Groundwater Analytical Data
All Results (Validated via DUSR)

LOCATION				MW-1A		MW-2A		MW-3A		MW-5A		MW-10A		BMW-13A	
SAMPLING DATE				11/2/2017		11/2/2017		11/2/2017		11/6/2017		11/6/2017		11/6/2017	
LAB SAMPLE ID				L1740446-02		L1740446-03		L1740446-04		L1740596-04		L1740596-02		L1740596-01	
SAMPLE TYPE				Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater	
	CasNum	NYSDEC GROUNDWATER STANDARD ¹	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics by GC/MS															
Methylene chloride	75-09-2	5	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
1,1-Dichloroethane	75-34-3	5	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
Chloroform	67-66-3	7	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
Carbon tetrachloride	56-23-5	5	ug/l	0.5	U	5	U	2.5	U	0.5	U	0.5	U	25	U
1,2-Dichloropropane	78-87-5	1	ug/l	1	U (UJ)	10	U (UJ)	5	U (UJ)	1	U	1	U	50	U
Dibromochloromethane	124-48-1	50	ug/l	0.5	U	5	U	2.5	U	0.5	U	0.5	U	25	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	1.5	U	15	U	7.5	U	1.5	U	1.5	U	75	U
Tetrachloroethene	127-18-4	5	ug/l	0.5	U	5	U	2.5	U	0.5	U	0.5	U	25	U
Chlorobenzene	108-90-7	5	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
Trichlorofluoromethane	75-69-4	5	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.5	U	5	U	2.5	U	0.5	U	0.5	U	25	U
1,1,1-Trichloroethane	71-55-6	5	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
Bromodichloromethane	75-27-4	50	ug/l	0.5	U	5	U	2.5	U	0.5	U	0.5	U	25	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.5	U	5	U	2.5	U	0.5	U	0.5	U	25	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.5	U	5	U	2.5	U	0.5	U	0.5	U	25	U
Bromoform	75-25-2	50	ug/l	2	U	20	U	10	U	2	U (UJ)	2	U (UJ)	100	U (UJ)
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.5	U (UJ)	5	U (UJ)	2.5	U (UJ)	0.5	U	0.5	U	25	U
Benzene	71-43-2	1	ug/l	0.5	U	5	U	2.5	U	0.5	U	0.5	U	25	U
Toluene	108-88-3	5	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
Ethylbenzene	100-41-4	5	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
Chloromethane	74-87-3		ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
Bromomethane	74-83-9	5	ug/l	2.5	U	25	U	12	U	2.5	U (UJ)	2.5	U (UJ)	120	U (UJ)
Vinyl chloride	75-01-4	2	ug/l	33		100	(J)	520		1	U	10		640	
Chloroethane	75-00-3	5	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.5	U	5	U	1.7	J	0.5	U	0.5	U	25	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
Trichloroethene	79-01-6	5	ug/l	0.5	U	730	(J)	2.5	U	0.61	U	0.5	U	25	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
Methyl tert butyl ether	1634-04-4	10	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
p/m-Xylene	179601-23-1	5	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
o-Xylene	95-47-6	5	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	10		950	(J)	1700 (1500)	E (-)	2.5	U	44		4300	
Styrene	100-42-5	5	ug/l	2.5	U	25	U	12	U	2.5	U (UJ)	2.5	U (UJ)	120	U (UJ)
Dichlorodifluoromethane	75-71-8	5	ug/l	5	U	50	U	25	U	5	U	5	U	250	U
Acetone	67-64-1	50	ug/l	5	U	50	U	25	U	5	U	5	U	250	U
Carbon disulfide	75-15-0	60	ug/l	5	U	50	U	25	U	5	U	5	U	250	U
2-Butanone	78-93-3	50	ug/l	5	U	50	U	25	U	5	U	5	U	250	U
4-Methyl-2-pentanone	108-10-1		ug/l	5	U	50	U	25	U	5	U	5	U	250	U
2-Hexanone	591-78-6	50	ug/l	5	U	50	U	25	U	5	U	5	U	250	U
Bromochloromethane	74-97-5	5	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	2	U	20	U	10	U	2	U	2	U	100	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
Isopropylbenzene	98-82-8	5	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
Methyl Acetate	79-20-9		ug/l	2	U	20	U	10	U	2	U	2	U	100	U
Cyclohexane	110-82-7		ug/l	0.33	J	100	U	50	U	10	U	10	U	500	U
1,4-Dioxane	123-91-1		ug/l	250	U	2500	U	1200	U	250	U	250	U	12000	U
Freon-113	76-13-1	5	ug/l	2.5	U	25	U	12	U	2.5	U	2.5	U	120	U
Methyl cyclohexane	108-87-2		ug/l	10	U	100	U	50	U	10	U	10	U	500	U

Notes:

¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, June 2004.

Concentrations expressed in ug/l or parts per billion (ppb).

U denotes the analyte was not detected at the reported detection limit for the sample.

J denotes an estimated value.

E denotes the concentration of the analyte exceeded the range of the calibration curve and/or the linear range of the instrument

Values and qualifiers in parenthesis denote values and qualifiers that were changed due to data validation

Table 4.3.1-1
2017 Groundwater Analytical Data
All Results (Validated via DUSR)

LOCATION				BMW-14A		BMW-15A		FD01-20171103 (BMW-15A)		BMW-16A		BMW-17A		BMW-18A		BMW-19A	
SAMPLING DATE				11/2/2017		11/2/2017		11/2/2017		11/6/2017		11/2/2017		11/2/2017		11/6/2017	
LAB SAMPLE ID				L1740446-06		L1740446-05		L1740446-07		L1740596-05		L1740446-01		L1740446-08		L1740596-03	
SAMPLE TYPE				Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater	
	CasNum	NYSDEC GROUNDWATER STANDARD ¹	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Volatile Organics by GC/MS																	
Methylene chloride	75-09-2	5	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
1,1-Dichloroethane	75-34-3	5	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
Chloroform	67-66-3	7	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
Carbon tetrachloride	56-23-5	5	ug/l	5	U	1.2	U	1.2	U	0.5	U	0.5	U	0.5	U	10	U
1,2-Dichloropropane	78-87-5	1	ug/l	10	U (UJ)	2.5	U (UJ)	2.5	U (UJ)	1	U	1	U (UJ)	1	U (UJ)	20	U
Dibromochloromethane	124-48-1	50	ug/l	5	U	1.2	U	1.2	U	0.5	U	0.5	U	0.5	U	10	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	15	U	3.8	U	3.8	U	1.5	U	1.5	U	1.5	U	30	U
Tetrachloroethene	127-18-4	5	ug/l	5	U	1.2	U	1.2	U	0.5	U	0.5	U	0.5	U	10	U
Chlorobenzene	108-90-7	5	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
Trichlorofluoromethane	75-69-4	5	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	5	U	1.2	U	1.2	U	0.5	U	0.5	U	0.5	U	10	U
1,1,1-Trichloroethane	71-55-6	5	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
Bromodichloromethane	75-27-4	50	ug/l	5	U	1.2	U	1.2	U	0.5	U	0.5	U	0.5	U	10	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	5	U	1.2	U	1.2	U	0.5	U	0.5	U	0.5	U	10	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	5	U	1.2	U	1.2	U	0.5	U	0.5	U	0.5	U	10	U
Bromoform	75-25-2	50	ug/l	20	U	5	U	5	U (UJ)	2	U	2	U	2	U	40	U (UJ)
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	5	U (UJ)	1.2	U (UJ)	1.2	U (UJ)	0.5	U	0.5	U (UJ)	0.5	U (UJ)	10	U
Benzene	71-43-2	1	ug/l	5	U	1.2	U	1.2	U	0.5	U	0.5	U	0.5	U	10	U
Toluene	108-88-3	5	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
Ethylbenzene	100-41-4	5	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
Chloromethane	74-87-3		ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
Bromomethane	74-83-9	5	ug/l	25	U	6.2	U	6.2	U	2.5	U (UJ)	2.5	U	2.5	U	50	U (UJ)
Vinyl chloride	75-01-4	2	ug/l	34	U	160	U	180	U	1.3	U	12	U	0.16	J	460	U
Chloroethane	75-00-3	5	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
1,1-Dichloroethene	75-35-4	5	ug/l	5	U	1.1	J	1.2	U	0.5	U	0.5	U	0.5	U	10	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	7	J	16	U	17	U	2.5	U	2.5	U	2.5	U	50	U
Trichloroethene	79-01-6	5	ug/l	5	U	2.3	U	2.1	U	0.5	U	0.5	U	0.5	U	10	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
Methyl tert butyl ether	1634-04-4	10	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
p/m-Xylene	179601-23-1	5	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
o-Xylene	95-47-6	5	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	820	U	340	U	390	U	4.4	U	2.5	U	1.4	J	1500	U
Styrene	100-42-5	5	ug/l	25	U	6.2	U	6.2	U	2.5	U (UJ)	2.5	U	2.5	U	50	U (UJ)
Dichlorodifluoromethane	75-71-8	5	ug/l	50	U	12	U	12	U	5	U	5	U	5	U	100	U
Acetone	67-64-1	50	ug/l	50	U	12	U	12	U	5	U	5	U	5	U	100	U
Carbon disulfide	75-15-0	60	ug/l	50	U	12	U	12	U	5	U	5	U	5	U	100	U
2-Butanone	78-93-3	50	ug/l	50	U	12	U	12	U	5	U	5	U	5	U	100	U
4-Methyl-2-pentanone	108-10-1		ug/l	50	U	12	U	12	U	5	U	5	U	5	U	100	U
2-Hexanone	591-78-6	50	ug/l	50	U	12	U	12	U	5	U	5	U	5	U	100	U
Bromochloromethane	74-97-5	5	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	20	U	5	U	5	U	2	U	2	U	2	U	40	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
Isopropylbenzene	98-82-8	5	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
Methyl Acetate	79-20-9		ug/l	20	U	5	U	5	U	2	U	2	U	2	U	40	U
Cyclohexane	110-82-7		ug/l	100	U	25	U	25	U	10	U	10	U	10	U	200	U
1,4-Dioxane	123-91-1		ug/l	2500	U	620	U	620	U	250	U	250	U	250	U	5000	U
Freon-113	76-13-1	5	ug/l	25	U	6.2	U	6.2	U	2.5	U	2.5	U	2.5	U	50	U
Methyl cyclohexane	108-87-2		ug/l	100	U	25	U	25	U	10	U	10	U	10	U	200	U

Notes:
¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, June 2004.
 Concentrations expressed in ug/l or parts per billion (ppb).
 U denotes the analyte was not detected at the reported detection limit for the sample.
 J denotes an estimated value.
 E denotes the concentration of the analyte exceeded the range of the calibration curve and/or the linear range of the instrument
 Values and qualifiers in parenthesis denote values and qualifiers that were changed due to data validation

LOCATION				TRIP BLANK		TRIP BLANK		EB01-20171106	
SAMPLING DATE				11/2/2017		11/6/2017		11/6/2017	
LAB SAMPLE ID				L1740446-09		L1740596-07		L1740596-06	
SAMPLE TYPE				Lab Water		Lab Water		Equipment Blank Water	
	CasNum	NYSDEC GROUNDWATER STANDARD ¹	Units	Results	Qual	Results	Qual	Results	Qual
Volatile Organics by GC/MS									
Methylene chloride	75-09-2	5	ug/l	2.5	U	2.5	U	2.5	U
1,1-Dichloroethane	75-34-3	5	ug/l	2.5	U	2.5	U	2.5	U
Chloroform	67-66-3	7	ug/l	2.5	U	2.5	U	2.5	U
Carbon tetrachloride	56-23-5	5	ug/l	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane	78-87-5	1	ug/l	1	U (UJ)	1	U	1	U
Dibromochloromethane	124-48-1	50	ug/l	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	79-00-5	1	ug/l	1.5	U	1.5	U	1.5	U
Tetrachloroethene	127-18-4	5	ug/l	0.5	U	0.5	U	0.5	U
Chlorobenzene	108-90-7	5	ug/l	2.5	U	2.5	U	2.5	U
Trichlorofluoromethane	75-69-4	5	ug/l	2.5	U	2.5	U	2.5	U
1,2-Dichloroethane	107-06-2	0.6	ug/l	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	71-55-6	5	ug/l	2.5	U	2.5	U	2.5	U
Bromodichloromethane	75-27-4	50	ug/l	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	0.5	U	0.5	U	0.5	U
Bromoform	75-25-2	50	ug/l	2	U	2	U (UJ)	2	U (UJ)
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	0.5	U (UJ)	0.5	U	0.5	U
Benzene	71-43-2	1	ug/l	0.5	U	0.5	U	0.5	U
Toluene	108-88-3	5	ug/l	2.5	U	2.5	U	2.5	U
Ethylbenzene	100-41-4	5	ug/l	2.5	U	2.5	U	2.5	U
Chloromethane	74-87-3		ug/l	2.5	U	2.5	U	2.5	U
Bromomethane	74-83-9	5	ug/l	2.5	U	2.5	U (UJ)	2.5	U (UJ)
Vinyl chloride	75-01-4	2	ug/l	1	U	1	U	1	U
Chloroethane	75-00-3	5	ug/l	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	75-35-4	5	ug/l	0.5	U	0.5	U	0.5	U
trans-1,2-Dichloroethene	156-60-5	5	ug/l	2.5	U	2.5	U	2.5	U
Trichloroethene	79-01-6	5	ug/l	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	95-50-1	3	ug/l	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	541-73-1	3	ug/l	2.5	U	2.5	U	2.5	U
1,4-Dichlorobenzene	106-46-7	3	ug/l	2.5	U	2.5	U	2.5	U
Methyl tert butyl ether	1634-04-4	10	ug/l	2.5	U	2.5	U	2.5	U
p/m-Xylene	179601-23-1	5	ug/l	2.5	U	2.5	U	2.5	U
o-Xylene	95-47-6	5	ug/l	2.5	U	2.5	U	2.5	U
cis-1,2-Dichloroethene	156-59-2	5	ug/l	2.5	U	2.5	U	2.5	U
Styrene	100-42-5	5	ug/l	2.5	U	2.5	U (UJ)	2.5	U (UJ)
Dichlorodifluoromethane	75-71-8	5	ug/l	5	U	5	U	5	U
Acetone	67-64-1	50	ug/l	5	U	5	U	5	U
Carbon disulfide	75-15-0	60	ug/l	5	U	5	U	5	U
2-Butanone	78-93-3	50	ug/l	5	U	5	U	5	U
4-Methyl-2-pentanone	108-10-1		ug/l	5	U	5	U	5	U
2-Hexanone	591-78-6	50	ug/l	5	U	5	U	5	U
Bromochloromethane	74-97-5	5	ug/l	2.5	U	2.5	U	2.5	U
1,2-Dibromoethane	106-93-4	0.0006	ug/l	2	U	2	U	2	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ug/l	2.5	U	2.5	U	2.5	U
Isopropylbenzene	98-82-8	5	ug/l	2.5	U	2.5	U	2.5	U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	2.5	U	2.5	U	2.5	U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	2.5	U	2.5	U	2.5	U
Methyl Acetate	79-20-9		ug/l	2	U	2	U	2	U
Cyclohexane	110-82-7		ug/l	10	U	10	U	10	U
1,4-Dioxane	123-91-1		ug/l	250	U	250	U	250	U
Freon-113	76-13-1	5	ug/l	2.5	U	2.5	U	2.5	U
Methyl cyclohexane	108-87-2		ug/l	10	U	10	U	10	U

Notes:

¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values
and Groundwater Effluent Limitations, New York State Department of
Environmental Conservation, June 1998 and Addendum, June 2004.

Concentrations expressed in ug/l or parts per billion (ppb).

U denotes the analyte was not detected at the reported detection limit for the sample.

J denotes an estimated value.

E denotes the concentration of the analyte exceeded the range of the
calibration curve and/or the linear range of the instrument

Values and qualifiers in parenthesis denote values and qualifiers that were
changed due to data validation

TABLE 4.3.1-2
2017 GROUNDWATER ANALYTICAL DATA
(DETECTED COMPOUNDS ONLY)

Table 4.3.1-2
 2017 Groundwater Analytical Data
 Detected Compounds Only (Validated via DUSR)

LOCATION					MW-1A		MW-2A		MW-3A		MW-5A		
SAMPLING DATE					11/2/2017		11/2/2017		11/2/2017		11/6/2017		
LAB SAMPLE ID					L1740446-02		L1740446-03		L1740446-04		L1740596-04		
SAMPLE TYPE					Groundwater		Groundwater		Groundwater		Groundwater		
	CasNum	NYSDEC GROUNDWATER STANDARD ¹	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
Volatile Organics by GC/MS													
	Vinyl chloride	75-01-4	2	ug/l	33			100	(J)	520		1	U
	1,1-Dichloroethene	75-35-4	5	ug/l	0.5	U		5	U	1.7	J	0.5	U
	trans-1,2-Dichloroethene	156-60-5	5	ug/l	2.5	U		25	U	12	U	2.5	U
	Trichloroethene	79-01-6	5	ug/l	0.5	U		730	(J)	2.5	U	0.61	
	cis-1,2-Dichloroethene	156-59-2	5	ug/l	10			950	(J)	1700 (1500)	E (-)	2.5	U
	Cyclohexane	110-82-7		ug/l	0.33	J		100	U	50	U	10	U

Notes:

¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, June 2004.

Concentrations expressed in ug/l or parts per billion (ppb).

U denotes the analyte was not detected at the reported detection limit for the sample.

J denotes an estimated value.

E denotes the concentration of the analyte exceeded the range of the calibration curve and/or the linear range of the instrument

Values and qualifiers in parenthesis denote values and qualifiers that were changed due to data validation

Table 4.3.1-2
 2017 Groundwater Analytical Data
 Detected Compounds Only (Validated via DUSR)

LOCATION					MW-10A		BMW-13A		BMW-14A		BMW-15A		
SAMPLING DATE					11/6/2017		11/6/2017		11/2/2017		11/2/2017		
LAB SAMPLE ID					L1740596-02		L1740596-01		L1740446-06		L1740446-05		
SAMPLE TYPE					Groundwater		Groundwater		Groundwater		Groundwater		
	CasNum	NYSDEC GROUNDWATER STANDARD ¹	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual		
Volatile Organics by GC/MS													
	Vinyl chloride	75-01-4	2	ug/l	10			640		34		160	
	1,1-Dichloroethene	75-35-4	5	ug/l	0.5	U		25	U	5	U	1.1	J
	trans-1,2-Dichloroethene	156-60-5	5	ug/l	2.5	U		120	U	7	J	16	
	Trichloroethene	79-01-6	5	ug/l	0.5	U		25	U	5	U	2.3	
	cis-1,2-Dichloroethene	156-59-2	5	ug/l	44			4300		820		340	
	Cyclohexane	110-82-7		ug/l	10	U		500	U	100	U	25	U

Notes:

¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, June 2004.

Concentrations expressed in ug/l or parts per billion (ppb).

U denotes the analyte was not detected at the reported detection limit for the sample.

J denotes an estimated value.

E denotes the concentration of the analyte exceeded the range of the calibration curve and/or the linear range of the instrument

Values and qualifiers in parenthesis denote values and qualifiers that were changed due to data validation

Table 4.3.1-2
 2017 Groundwater Analytical Data
 Detected Compounds Only (Validated via DUSR)

LOCATION					FD01-20171103 (BMW-15A)		BMW-16A		BMW-17A		BMW-18A	
SAMPLING DATE					11/2/2017		11/6/2017		11/2/2017		11/2/2017	
LAB SAMPLE ID					L1740446-07		L1740596-05		L1740446-01		L1740446-08	
SAMPLE TYPE					Groundwater		Groundwater		Groundwater		Groundwater	
	CasNum	NYSDEC GROUNDWATER STANDARD ¹	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	
Volatile Organics by GC/MS												
Vinyl chloride	75-01-4	2	ug/l	180		1.3		12		0.16	J	
1,1-Dichloroethene	75-35-4	5	ug/l	1.2		0.5	U	0.5	U	0.5	U	
trans-1,2-Dichloroethene	156-60-5	5	ug/l	17		2.5	U	2.5	U	2.5	U	
Trichloroethene	79-01-6	5	ug/l	2.1		0.5	U	0.5	U	0.5	U	
cis-1,2-Dichloroethene	156-59-2	5	ug/l	390		4.4		2.5	U	1.4	J	
Cyclohexane	110-82-7		ug/l	25	U	10	U	10	U	10	U	

Notes:

¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, June 2004.

Concentrations expressed in ug/l or parts per billion (ppb).

U denotes the analyte was not detected at the reported detection limit for the sample.

J denotes an estimated value.

E denotes the concentration of the analyte exceeded the range of the calibration curve and/or the linear range of the instrument

Values and qualifiers in parenthesis denote values and qualifiers that were changed due to data validation

Table 4.3.1-2
 2017 Groundwater Analytical Data
 Detected Compounds Only (Validated via DUSR)

LOCATION					BMW-19A		TRIP BLANK		TRIP BLANK		EB01-20171106	
SAMPLING DATE					11/6/2017		11/2/2017		11/6/2017		11/6/2017	
LAB SAMPLE ID					L1740596-03		L1740446-09		L1740596-07		L1740596-06	
SAMPLE TYPE					Groundwater		Lab Water		Lab Water		Equipment Blank Water	
	CasNum	NYSDEC GROUNDWATER STANDARD ¹	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	
Volatile Organics by GC/MS												
	Vinyl chloride	75-01-4	2	ug/l	460		1	U	1	U	1	U
	1,1-Dichloroethene	75-35-4	5	ug/l	10	U	0.5	U	0.5	U	0.5	U
	trans-1,2-Dichloroethene	156-60-5	5	ug/l	50	U	2.5	U	2.5	U	2.5	U
	Trichloroethene	79-01-6	5	ug/l	10	U	0.5	U	0.5	U	0.5	U
	cis-1,2-Dichloroethene	156-59-2	5	ug/l	1500		2.5	U	2.5	U	2.5	U
	Cyclohexane	110-82-7		ug/l	200	U	10	U	10	U	10	U

Notes:

¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, June 2004.

Concentrations expressed in ug/l or parts per billion (ppb).

U denotes the analyte was not detected at the reported detection limit for the sample.

J denotes an estimated value.

E denotes the concentration of the analyte exceeded the range of the calibration curve and/or the linear range of the instrument

Values and qualifiers in parenthesis denote values and qualifiers that were changed due to data validation

TABLE 4.3.1-3
HISTORICAL GROUNDWATER ANALYTICAL SUMMARY

Table 4.3.1-3
 Historical Groundwater Analytical Summary
 Detected Compounds Only
 2017 Data Validated via DUSR

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	MW-1A											
		5/31/2007		2/11/2010		3/25/2010		12/14/2012		5/2/2014		11/2/2017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		NS		NS		0.29	J	0.5	U
Acetone	50 (GV)	ND		NS		NS		NS		1	U	5	U
Chloroform	7	ND		NS		NS		NS		0.2	U	2.5	U
cis-1,2-Dichloroethene	5	160		NS		NS		NS		41.4		10	
Cyclohexane	-	NA		NS		NS		NS		NA		0.33	J
Methylene Chloride	5	9.7		NS		NS		NS		0.2	U	2.5	U
Naphthalene	10	ND		NS		NS		NS		NA		NA	
o-Xylene	5	ND		NS		NS		NS		0.2	U	2.5	U
trans-1,2-Dichloroethene	5	ND		NS		NS		NS		0.2	U	2.5	U
Trichloroethene	5	ND		NS		NS		NS		0.2	U	0.5	U
Vinyl Chloride	2	87		NS		NS		NS		21.9		33	
TOTAL VOCs		256.7								63.59		43.5	

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	MW-3A											
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/1/2014		11/2/2017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		1.7		0.5	U	0.32	J	1.7	J
Acetone	50 (GV)	ND		NS		5	U	5	U	1	U	25	U
Chloroform	7	ND		NS		1	U	2.5	U	0.2	U	12	U
cis-1,2-Dichloroethene	5	15		NS		1,500		6.7		200	D	1700 (1500)	E (-)
Cyclohexane	-	NA		NS		1	U	NA		NA		50	U
Methylene Chloride	5	ND		NS		1	U	2.5	U	0.2	U	12	U
Naphthalene	10	ND		NS		NA		2.5	U	NA		NA	
o-Xylene	5	ND		NS		1	U	2.5	U	0.2	U	12	U
trans-1,2-Dichloroethene	5	ND		NS		5.2		2.5	U	0.69	J	12	U
Trichloroethene	5	ND		NS		1	U	0.5	U	0.2	U	2.5	U
Vinyl Chloride	2	ND		NS		330		1.3		50.9		520	
TOTAL VOCs		15				1,836.9		8		251.91		2,022	

Qualifiers and Notes

¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, April 2000.

Concentrations expressed in ug/l or parts per billion (ppb)

U indicates that the compound was analyzed for but not detected

J indicates an estimated value

E indicates the concentration of the analyte exceeded the range of the calibration curve and/or the linear range of the instrument

D indicates the concentration of the analyte was quantified from a diluted analysis

Values and qualifiers in parenthesis denote values and qualifiers that were changed due to data validation

GV denotes a Guidance Value

ND denotes "Non-Detect"

NA denotes "Not Analyzed"

NS denotes "Not Sampled"

2/11/2010 (FD) is a duplicate of BMW-16A

3/25/2010 (FD) is a duplicate of MW-2A

12/14/2012 (FD) is a duplicate of MW-10A

5/1/2014 (FD) is a duplicate of BMW-15A

11/2/2017 (FD) is a duplicate of BMW-15A

Table 4.3.1-3
 Historical Groundwater Analytical Summary
 Detected Compounds Only
 2017 Data Validated via DUSR

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	MW-2A													
		5/31/2007		2/11/2010		3/25/2010		3/25/2010 (FD)		12/17/2012		5/2/2014		11/2/2017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	8.4		NS		3.2		3.3		1.7	J	1.8		5	U
Acetone	50 (GV)	ND		NS		4.2	J	5	UJ	25	U	1	U	50	U
Chloroform	7	ND		NS		1	U	1	U	12	U	0.2	U	25	U
cis-1,2-Dichloroethene	5	7,500		NS		580		610		310		61.3		950	(J)
Cyclohexane	-	NA		NS		1	U	1	U	NA		NA		100	U
Methylene Chloride	5	9.3		NS		1	U	1	U	12	U	0.2	U	25	U
Naphthalene	10	ND		NS		NA		NA		12	U	NA		NA	
o-Xylene	5	ND		NS		1	U	1	U	12	U	0.2	U	25	U
trans-1,2-Dichloroethene	5	47		NS		3.8		4.1		12	U	0.66	J	25	U
Trichloroethene	5	3,300		NS		69		67		190		75.4		730	(J)
Vinyl Chloride	2	210		NS		23		24		9.7		0.2	U	100	(J)
TOTAL VOCs		11,074.7				683.2		708.4		511.4		139.16		1780	

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	MW-4A													
		5/31/2007		2/11/2010		3/25/2010				12/14/2012		5/1/2014		11/2/2017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier			Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		1	U			NS		0.2	U	NS	
Acetone	50 (GV)	ND		NS		5	U			NS		1	U	NS	
Chloroform	7	ND		NS		1	U			NS		0.2	U	NS	
cis-1,2-Dichloroethene	5	13		NS		6				NS		5		NS	
Cyclohexane	-	NA		NS		1	U			NS		NA		NS	
Methylene Chloride	5	ND		NS		1	U			NS		0.2	U	NS	
Naphthalene	10	ND		NS		NA				NS		NA		NS	
o-Xylene	5	ND		NS		1	U			NS		0.2	U	NS	
trans-1,2-Dichloroethene	5	ND		NS		1	U			NS		0.69	J	NS	
Trichloroethene	5	ND		NS		1.2				NS		1.2		NS	
Vinyl Chloride	2	ND		NS		1	U			NS		0.2	U	NS	
TOTAL VOCs		13				7.2						6.89			

Qualifiers and Notes

¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, April 2000.

Concentrations expressed in ug/l or parts per billion (ppb)

U indicates that the compound was analyzed for but not detected

J indicates an estimated value

E indicates the concentration of the analyte exceeded the range of the calibration curve and/or the linear range of the instrument

D indicates the concentration of the analyte was quantified from a diluted analysis

Values and qualifiers in parenthesis denote values and qualifiers that were changed due to data validation

GV denotes a Guidance Value

ND denotes "Non-Detect"

NA denotes "Not Analyzed"

NS denotes "Not Sampled"

2/11/2010 (FD) is a duplicate of BMW-16A

3/25/2010 (FD) is a duplicate of MW-2A

12/14/2012 (FD) is a duplicate of MW-10A

5/1/2014 (FD) is a duplicate of BMW-15A

11/2/2017 (FD) is a duplicate of BMW-15A

Table 4.3.1-3
 Historical Groundwater Analytical Summary
 Detected Compounds Only
 2017 Data Validated via DUSR

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	MW-5A											
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/1/2014		11/6/2017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		1	U	NS		0.2	U	0.5	U
Acetone	50 (GV)	ND		NS		5	U	NS		1	U	5	U
Chloroform	7	ND		NS		1	U	NS		0.2	U	2.5	U
cis-1,2-Dichloroethene	5	530		NS		4.6		NS		0.94	J	2.5	U
Cyclohexane	-	NA		NS		1	U	NS		NA		10	U
Methylene Chloride	5	10		NS		1	U	NS		0.2	U	2.5	U
Naphthalene	10	ND		NS		NA		NS		NA		NA	
o-Xylene	5	ND		NS		1	U	NS		0.2	U	2.5	U
trans-1,2-Dichloroethene	5	14		NS		1	U	NS		0.2	U	2.5	U
Trichloroethene	5	88		NS		1.2		NS		1.1		0.61	
Vinyl Chloride	2	160		NS		0.81	J	NS		0.2	U	1	U
TOTAL VOCs		802				6.61				2.04		0.61	

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	MW-7A											
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/1/2014		11/2/2017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		NS		NS		NS		NS	
Acetone	50 (GV)	ND		NS		NS		NS		NS		NS	
Chloroform	7	ND		NS		NS		NS		NS		NS	
cis-1,2-Dichloroethene	5	17		NS		NS		NS		NS		NS	
Cyclohexane	-	NA		NS		NS		NS		NS		NS	
Methylene Chloride	5	11		NS		NS		NS		NS		NS	
Naphthalene	10	42		NS		NS		NS		NS		NS	
o-Xylene	5	ND		NS		NS		NS		NS		NS	
trans-1,2-Dichloroethene	5	ND		NS		NS		NS		NS		NS	
Trichloroethene	5	7.2		NS		NS		NS		NS		NS	
Vinyl Chloride	2	ND		NS		NS		NS		NS		NS	
TOTAL VOCs		35.2											

Qualifiers and Notes

¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, April 2000.

Concentrations expressed in ug/l or parts per billion (ppb)

U indicates that the compound was analyzed for but not detected

J indicates an estimated value

E indicates the concentration of the analyte exceeded the range of the calibration curve and/or the linear range of the instrument

D indicates the concentration of the analyte was quantified from a diluted analysis

Values and qualifiers in parenthesis denote values and qualifiers that were changed due to data validation

GV denotes a Guidance Value

ND denotes "Non-Detect"

NA denotes "Not Analyzed"

NS denotes "Not Sampled"

2/11/2010 (FD) is a duplicate of BMW-16A

3/25/2010 (FD) is a duplicate of MW-2A

12/14/2012 (FD) is a duplicate of MW-10A

5/1/2014 (FD) is a duplicate of BMW-15A

11/2/2017 (FD) is a duplicate of BMW-15A

Table 4.3.1-3
 Historical Groundwater Analytical Summary
 Detected Compounds Only
 2017 Data Validated via DUSR

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	MW-6A									
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		11/2/2017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		NS		NS		NS	
Acetone	50 (GV)	ND		NS		NS		NS		NS	
Chloroform	7	ND		NS		NS		NS		NS	
cis-1,2-Dichloroethene	5	160		NS		NS		NS		NS	
Cyclohexane	-	NA		NS		NS		NS		NS	
Methylene Chloride	5	11		NS		NS		NS		NS	
Naphthalene	10	ND		NS		NS		NS		NS	
o-Xylene	5	ND		NS		NS		NS		NS	
trans-1,2-Dichloroethene	5	ND		NS		NS		NS		NS	
Trichloroethene	5	140		NS		NS		NS		NS	
Vinyl Chloride	2	9.4		NS		NS		NS		NS	
TOTAL VOCs		320.4									

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	MW-8									
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		11/2/2017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		NS		1	U	NS		NS	
Acetone	50 (GV)	NS		NS		5	U	NS		NS	
Chloroform	7	NS		NS		1	U	NS		NS	
cis-1,2-Dichloroethene	5	NS		NS		1	U	NS		NS	
Cyclohexane	-	NS		NS		1	U	NS		NS	
Methylene Chloride	5	NS		NS		1	U	NS		NS	
Naphthalene	10	NS		NS		NA		NS		NS	
o-Xylene	5	NS		NS		1	U	NS		NS	
trans-1,2-Dichloroethene	5	NS		NS		1	U	NS		NS	
Trichloroethene	5	NS		NS		1	U	NS		NS	
Vinyl Chloride	2	NS		NS		1	U	NS		NS	
TOTAL VOCs						ND					

Qualifiers and Notes

¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, April 2000.

Concentrations expressed in ug/l or parts per billion (ppb)

U indicates that the compound was analyzed for but not detected

J indicates an estimated value

E indicates the concentration of the analyte exceeded the range of the calibration curve and/or the linear range of the instrument

D indicates the concentration of the analyte was quantified from a diluted analysis

Values and qualifiers in parenthesis denote values and qualifiers that were changed due to data validation

GV denotes a Guidance Value

ND denotes "Non-Detect"

NA denotes "Not Analyzed"

NS denotes "Not Sampled"

2/11/2010 (FD) is a duplicate of BMW-16A

3/25/2010 (FD) is a duplicate of MW-2A

12/14/2012 (FD) is a duplicate of MW-10A

5/1/2014 (FD) is a duplicate of BMW-15A

11/2/2017 (FD) is a duplicate of BMW-15A

Table 4.3.1-3
 Historical Groundwater Analytical Summary
 Detected Compounds Only
 2017 Data Validated via DUSR

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	MW-8A													
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/2/2014		11/2/2017			
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier		
1,1-Dichloroethene	5	ND		NS		1	U	NS				0.2	U	NS	
Acetone	50 (GV)	ND		NS		5	U	NS				1	U	NS	
Chloroform	7	ND		NS		1	U	NS				0.2	U	NS	
cis-1,2-Dichloroethene	5	12		NS		1	U	NS				0.93	J	NS	
Cyclohexane	-	NA		NS		1	U	NS				NA		NS	
Methylene Chloride	5	11		NS		1	U	NS				0.2	U	NS	
Naphthalene	10	ND		NS		NA		NS				NA		NS	
o-Xylene	5	ND		NS		1	U	NS				0.2	U	NS	
trans-1,2-Dichloroethene	5	ND		NS		1	U	NS				0.2	U	NS	
Trichloroethene	5	ND		NS		1	U	NS				0.2	U	NS	
Vinyl Chloride	2	ND		NS		1	U	NS				0.2	U	NS	
TOTAL VOCs		23				0						0.93			

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	MW-10A													
		5/31/2007		2/11/2010		3/25/2010		12/14/2012		12/14/2012 (FD)		5/2/2014		11/2/2017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		NS		10	U	1.2		2.5		0.5	U
Acetone	50 (GV)	ND		NS		NS		100	U	5	U	1	U	5	U
Chloroform	7	ND		NS		NS		50	U	2.5	U	0.2	U	2.5	U
cis-1,2-Dichloroethene	5	1,300		NS		NS		650		600		1,800	D	44	
Cyclohexane	-	NA		NS		NS		NA		NA		NA		10	U
Methylene Chloride	5	9.2		NS		NS		50	U	2.5	U	0.2	U	2.5	U
Naphthalene	10	ND		NS		NS		50	U	2.5	U	NA		NA	
o-Xylene	5	ND		NS		NS		50	U	2.5	U	0.2	U	2.5	U
trans-1,2-Dichloroethene	5	8.9		NS		NS		50	U	5.7		6.2		2.5	U
Trichloroethene	5	10		NS		NS		10	U	2.4		16.3		0.5	U
Vinyl Chloride	2	440		NS		NS		120		140		400	D	10	
TOTAL VOCs		1,768.1						770		749.3		1,825		54	

Qualifiers and Notes

¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, April 2000.

Concentrations expressed in ug/l or parts per billion (ppb)

U indicates that the compound was analyzed for but not detected

J indicates an estimated value

E indicates the concentration of the analyte exceeded the range of the calibration curve and/or the linear range of the instrument

D indicates the concentration of the analyte was quantified from a diluted analysis

Values and qualifiers in parenthesis denote values and qualifiers that were changed due to data validation

GV denotes a Guidance Value

ND denotes "Non-Detect"

NA denotes "Not Analyzed"

NS denotes "Not Sampled"

2/11/2010 (FD) is a duplicate of BMW-16A

3/25/2010 (FD) is a duplicate of MW-2A

12/14/2012 (FD) is a duplicate of MW-10A

5/1/2014 (FD) is a duplicate of BMW-15A

11/2/2017 (FD) is a duplicate of BMW-15A

Table 4.3.1-3
 Historical Groundwater Analytical Summary
 Detected Compounds Only
 2017 Data Validated via DUSR

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	MW-9A											
		5/31/2007		2/11/2010		3/25/2010		12/17/2012		5/2/2014		11/2/2017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	ND		NS		NS		NS		NS		NS	
Acetone	50 (GV)	ND		NS		NS		NS		NS		NS	
Chloroform	7	ND		NS		NS		NS		NS		NS	
cis-1,2-Dichloroethene	5	ND		NS		NS		NS		NS		NS	
Cyclohexane	-	NA		NS		NS		NS		NS		NS	
Methylene Chloride	5	10		NS		NS		NS		NS		NS	
Naphthalene	10	ND		NS		NS		NS		NS		NS	
o-Xylene	5	ND		NS		NS		NS		NS		NS	
trans-1,2-Dichloroethene	5	ND		NS		NS		NS		NS		NS	
Trichloroethene	5	ND		NS		NS		NS		NS		NS	
Vinyl Chloride	2	ND		NS		NS		NS		NS		NS	
TOTAL VOCs		10											

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	BMW-11A											
		5/31/2007		2/11/2010		3/25/2010		12/14/2012		5/2/2014		11/2/2017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1	U	NS		NS		0.2	U	NS	
Acetone	50 (GV)	NS		5	U	NS		NS		1	U	NS	
Chloroform	7	NS		1	U	NS		NS		0.2	U	NS	
cis-1,2-Dichloroethene	5	NS		1	U	NS		NS		0.81	J	NS	
Cyclohexane	-	NS		1	U	NS		NS		NA		NS	
Methylene Chloride	5	NS		1	U	NS		NS		0.2	U	NS	
Naphthalene	10	NS		NA		NS		NS		NA		NS	
o-Xylene	5	NS		1	U	NS		NS		0.2	U	NS	
trans-1,2-Dichloroethene	5	NS		1	U	NS		NS		0.2	U	NS	
Trichloroethene	5	NS		1	U	NS		NS		0.2	U	NS	
Vinyl Chloride	2	NS		1	U	NS		NS		0.2	U	NS	
TOTAL VOCs				ND						0.81		NS	

Qualifiers and Notes

¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, April 2000.

Concentrations expressed in ug/l or parts per billion (ppb)

U indicates that the compound was analyzed for but not detected

J indicates an estimated value

E indicates the concentration of the analyte exceeded the range of the calibration curve and/or the linear range of the instrument

D indicates the concentration of the analyte was quantified from a diluted analysis

Values and qualifiers in parenthesis denote values and qualifiers that were changed due to data validation

GV denotes a Guidance Value

ND denotes "Non-Detect"

NA denotes "Not Analyzed"

NS denotes "Not Sampled"

2/11/2010 (FD) is a duplicate of BMW-16A

3/25/2010 (FD) is a duplicate of MW-2A

12/14/2012 (FD) is a duplicate of MW-10A

5/1/2014 (FD) is a duplicate of BMW-15A

11/2/2017 (FD) is a duplicate of BMW-15A

Table 4.3.1-3
 Historical Groundwater Analytical Summary
 Detected Compounds Only
 2017 Data Validated via DUSR

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	BMW-12A											
		5/31/2007		2/11/2010		3/25/2010		12/14/2012		5/2/2014		11/2/2017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1	U	NS		NS		0.2	U	NS	
Acetone	50 (GV)	NS		15	U	NS		NS		1	U	NS	
Chloroform	7	NS		1	U	NS		NS		0.2	U	NS	
cis-1,2-Dichloroethene	5	NS		4.8		NS		NS		1.6		NS	
Cyclohexane	-	NS		1	U	NS		NS		NA		NS	
Methylene Chloride	5	NS		1	U	NS		NS		0.2	U	NS	
Naphthalene	10	NS		NA		NS		NS		NA		NS	
o-Xylene	5	NS		1	U	NS		NS		0.2	U	NS	
trans-1,2-Dichloroethene	5	NS		1	U	NS		NS		0.2	U	NS	
Trichloroethene	5	NS		1	U	NS		NS		0.2	U	NS	
Vinyl Chloride	2	NS		6.7		NS		NS		2.3		NS	
TOTAL VOCs				11.5						3.9			

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	BMW-14A											
		5/31/2007		2/10/2010		3/25/2010		12/17/2012		5/2/2014		11/2/2017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1.5		NS		2.5	U	1.4		5	U
Acetone	50 (GV)	NS		5	UJ	NS		25	U	1	U	50	U
Chloroform	7	NS		1.2		NS		12	U	0.2	U	25	U
cis-1,2-Dichloroethene	5	NS		520		NS		350		460	D	820	
Cyclohexane	-	NS		1	U	NS		NA		NA		100	U
Methylene Chloride	5	NS		1	U	NS		12	U	0.2	U	25	U
Naphthalene	10	NS		NA		NS		12	U	NA			
o-Xylene	5	NS		1	U	NS		12	U	0.2	U	25	U
trans-1,2-Dichloroethene	5	NS		13		NS		5.1	J	7.8		7	J
Trichloroethene	5	NS		17		NS		2.5	U	0.81	J	5	U
Vinyl Chloride	2	NS		13		NS		5	U	10.8		34	
TOTAL VOCs				565.7				355.1		480.81		861	

Qualifiers and Notes

¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, April 2000.

Concentrations expressed in ug/l or parts per billion (ppb)

U indicates that the compound was analyzed for but not detected

J indicates an estimated value

E indicates the concentration of the analyte exceeded the range of the calibration curve and/or the linear range of the instrument

D indicates the concentration of the analyte was quantified from a diluted analysis

Values and qualifiers in parenthesis denote values and qualifiers that were changed due to data validation

GV denotes a Guidance Value

ND denotes "Non-Detect"

NA denotes "Not Analyzed"

NS denotes "Not Sampled"

2/11/2010 (FD) is a duplicate of BMW-16A

3/25/2010 (FD) is a duplicate of MW-2A

12/14/2012 (FD) is a duplicate of MW-10A

5/1/2014 (FD) is a duplicate of BMW-15A

11/2/2017 (FD) is a duplicate of BMW-15A

Table 4.3.1-3
 Historical Groundwater Analytical Summary
 Detected Compounds Only
 2017 Data Validated via DUSR

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	BMW-13A															
		5/31/2007		2/11/2010		3/25/2010		12/14/2012		5/2/2014		11/6/2017					
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier				
1,1-Dichloroethene	5	NS		1	U	NS		NS		0.92	J			25	U		
Acetone	50 (GV)	NS		5	U	NS		NS		1	U			250	U		
Chloroform	7	NS		1	U	NS		NS		0.2	U			120	U		
cis-1,2-Dichloroethene	5	NS		530		NS		NS		630	D			4300			
Cyclohexane	-	NS		1	U	NS		NS		NA				500	U		
Methylene Chloride	5	NS		1	U	NS		NS		0.2	U			120	U		
Naphthalene	10	NS		NA		NS		NS		NA				NA			
o-Xylene	5	NS		1	U	NS		NS		0.2	U			120	U		
trans-1,2-Dichloroethene	5	NS		2.1		NS		NS		1.3				120	U		
Trichloroethene	5	NS		1	U	NS		NS		0.2	U			25	U		
Vinyl Chloride	2	NS		130		NS		NS		170				640			
TOTAL VOCs				662.1						802.22				4940			

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	BMW-15A															
		5/31/2007		2/10/2010		3/25/2010		12/14/2012		5/1/2014		5/1/2014 (FD)		11/2/2017		11/2/2017 (FD)	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1	U	NS		NS		1.6		1.5		1.1	J	1.2	
Acetone	50 (GV)	NS		5	U	NS		NS		1	U	1	U	12	U	12	U
Chloroform	7	NS		0.88	J	NS		NS		0.2	U	0.2	U	6.2	U	6.2	U
cis-1,2-Dichloroethene	5	NS		150		NS		NS		620	D	580	D	340		390	
Cyclohexane	-	NS		1	U	NS		NS		NA		NA		25	U	25	U
Methylene Chloride	5	NS		1	U	NS		NS		0.2	U	0.2	U	6.2	U	6.2	U
Naphthalene	10	NS		NA		NS		NS		NA		NA		NA		NA	
o-Xylene	5	NS		1	U	NS		NS		0.2	U	0.2	U	6.2	U	6.2	U
trans-1,2-Dichloroethene	5	NS		10		NS		NS		24.5		23.2		16		17	
Trichloroethene	5	NS		35		NS		NS		9.1		9		2.3		2.1	
Vinyl Chloride	2	NS		82		NS		NS		220		200	D	160		180	
TOTAL VOCs				277.88						875.2		813.7		519.4		590.3	

Qualifiers and Notes

¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, April 2000.

Concentrations expressed in ug/l or parts per billion (ppb)

U indicates that the compound was analyzed for but not detected

J indicates an estimated value

E indicates the concentration of the analyte exceeded the range of the calibration curve and/or the linear range of the instrument

D indicates the concentration of the analyte was quantified from a diluted analysis

Values and qualifiers in parenthesis denote values and qualifiers that were changed due to data validation

GV denotes a Guidance Value

ND denotes "Non-Detect"

NA denotes "Not Analyzed"

NS denotes "Not Sampled"

2/11/2010 (FD) is a duplicate of BMW-16A

3/25/2010 (FD) is a duplicate of MW-2A

12/14/2012 (FD) is a duplicate of MW-10A

5/1/2014 (FD) is a duplicate of BMW-15A

11/2/2017 (FD) is a duplicate of BMW-15A

Table 4.3.1-3
 Historical Groundwater Analytical Summary
 Detected Compounds Only
 2017 Data Validated via DUSR

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	BMW-16A													
		5/31/2007		2/11/2010		2/11/2010 (FD)		3/25/2010		12/14/2012		5/2/2014		11/6/2017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1	U	1	U	1	U	0.5	U	0.2	U	0.5	U
Acetone	50 (GV)	NS		5	U	5	UJ	5	U	5	U	1	U	5	U
Chloroform	7	NS		1	U	1	U	1	U	2.5	U	0.2	U	2.5	U
cis-1,2-Dichloroethene	5	NS		4.2		3.7		1.2		2.5	U	0.2	U	4.4	
Cyclohexane	-	NS		1	U	1	U	1	U	NA		NA		10	U
Methylene Chloride	5	NS		1	U	1	U	1	U	2.5	U	0.2	U	2.5	U
Naphthalene	10	NS		NA		NA		NA		2.5	U	NA		NA	
o-Xylene	5	NS		1	U	1	U	1	U	2.5	U	0.2	U	2.5	U
trans-1,2-Dichloroethene	5	NS		1	U	1	U	1	U	2.5	U	0.2	U	2.5	U
Trichloroethene	5	NS		1.9		2		1	U	0.5	U	0.2	U	0.5	U
Vinyl Chloride	2	NS		2.1		1.8		2.1		1	U	0.2	U	1.3	
TOTAL VOCs				8.2		7.5		3.3		0		0		5.7	

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	BMW-18A													
		5/31/2007		2/10/2010				3/25/2010		12/14/2012		5/2/2014		11/2/2017	
		Result	Qualifier	Result	Qualifier			Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1	U			NS		NS		0.2	U	0.5	U
Acetone	50 (GV)	NS		5	U			NS		NS		1	U	5	U
Chloroform	7	NS		1	U			NS		NS		0.2	U	2.5	U
cis-1,2-Dichloroethene	5	NS		1.6				NS		NS		3.2		1.4	J
Cyclohexane	-	NS		1	U			NS		NS		NA		10	U
Methylene Chloride	5	NS		1	U			NS		NS		0.2	U	2.5	U
Naphthalene	10	NS		NA				NS		NS		NA		NA	
o-Xylene	5	NS		1	U			NS		NS		0.2	U	2.5	U
trans-1,2-Dichloroethene	5	NS		1	U			NS		NS		0.2	U	2.5	U
Trichloroethene	5	NS		1	U			NS		NS		0.2	U	0.5	U
Vinyl Chloride	2	NS		1	U			NS		NS		0.42		0.16	J
TOTAL VOCs				1.6								3.62		1.56	

Qualifiers and Notes

¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, April 2000.

Concentrations expressed in ug/l or parts per billion (ppb)

U indicates that the compound was analyzed for but not detected

J indicates an estimated value

E indicates the concentration of the analyte exceeded the range of the calibration curve and/or the linear range of the instrument

D indicates the concentration of the analyte was quantified from a diluted analysis

Values and qualifiers in parenthesis denote values and qualifiers that were changed due to data validation

GV denotes a Guidance Value

ND denotes "Non-Detect"

NA denotes "Not Analyzed"

NS denotes "Not Sampled"

2/11/2010 (FD) is a duplicate of BMW-16A

3/25/2010 (FD) is a duplicate of MW-2A

12/14/2012 (FD) is a duplicate of MW-10A

5/1/2014 (FD) is a duplicate of BMW-15A

11/2/2017 (FD) is a duplicate of BMW-15A

Table 4.3.1-3
 Historical Groundwater Analytical Summary
 Detected Compounds Only
 2017 Data Validated via DUSR

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	BMW-17A											
		5/31/2007		2/10/2010		3/25/2010		12/14/2012		5/2/2014		11/2/2017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		1	U	NS		NS		0.2	U	0.5	U
Acetone	50 (GV)	NS		5	U	NS		NS		1	U	5	U
Chloroform	7	NS		0.71	J	NS		NS		0.2	U	2.5	U
cis-1,2-Dichloroethene	5	NS		1.3		NS		NS		1.1		2.5	U
Cyclohexane	-	NS		1	U	NS		NS		NA		10	U
Methylene Chloride	5	NS		1	U	NS		NS		0.2	U	2.5	U
Naphthalene	10	NS		NA		NS		NS		NA		NA	
o-Xylene	5	NS		1	U	NS		NS		0.2	U	2.5	U
trans-1,2-Dichloroethene	5	NS		1	U	NS		NS		0.2	U	2.5	U
Trichloroethene	5	NS		1	U	NS		NS		0.2	U	0.5	U
Vinyl Chloride	2	NS		65		NS		NS		22.1		12	
TOTAL VOCs				67.01						23.2		12	

PARAMETER	NYSDEC GROUNDWATER STANDARD OR GUIDANCE VALUE (ug/L) ¹	BMW-19A											
		5/31/2007		2/10/2010		3/25/2010		12/17/2012		5/2/2014		11/2/2017	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1-Dichloroethene	5	NS		7.4		NS		25	U	4	U	10	U
Acetone	50 (GV)	NS		5	UJ	NS		250	U	20	U	100	U
Chloroform	7	NS		0.94	J	NS		120	U	4	U	50	U
cis-1,2-Dichloroethene	5	NS		6,600		NS		2,700		5,200	D	1,500	
Cyclohexane	-	NS		1	U	NS		NA		NA		200	U
Methylene Chloride	5	NS		1	U	NS		120	U	4	U	50	U
Naphthalene	10	NS		NA		NS		120	U	NA		NA	
o-Xylene	5	NS		0.55	J	NS		120	U	4	U	50	U
trans-1,2-Dichloroethene	5	NS		35		NS		120	U	10	J	50	U
Trichloroethene	5	NS		5.5		NS		25	U	4	U	10	U
Vinyl Chloride	2	NS		1,800		NS		820		1,400		460	
TOTAL VOCs				8,449				3,520		6,600		1,960	

Qualifiers and Notes

¹ TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, New York State Department of Environmental Conservation, June 1998 and Addendum, April 2000.

Concentrations expressed in ug/l or parts per billion (ppb)

U indicates that the compound was analyzed for but not detected

J indicates an estimated value

E indicates the concentration of the analyte exceeded the range of the calibration curve and/or the linear range of the instrument

D indicates the concentration of the analyte was quantified from a diluted analysis

Values and qualifiers in parenthesis denote values and qualifiers that were changed due to data validation

GV denotes a Guidance Value

ND denotes "Non-Detect"

NA denotes "Not Analyzed"

NS denotes "Not Sampled"

2/11/2010 (FD) is a duplicate of BMW-16A

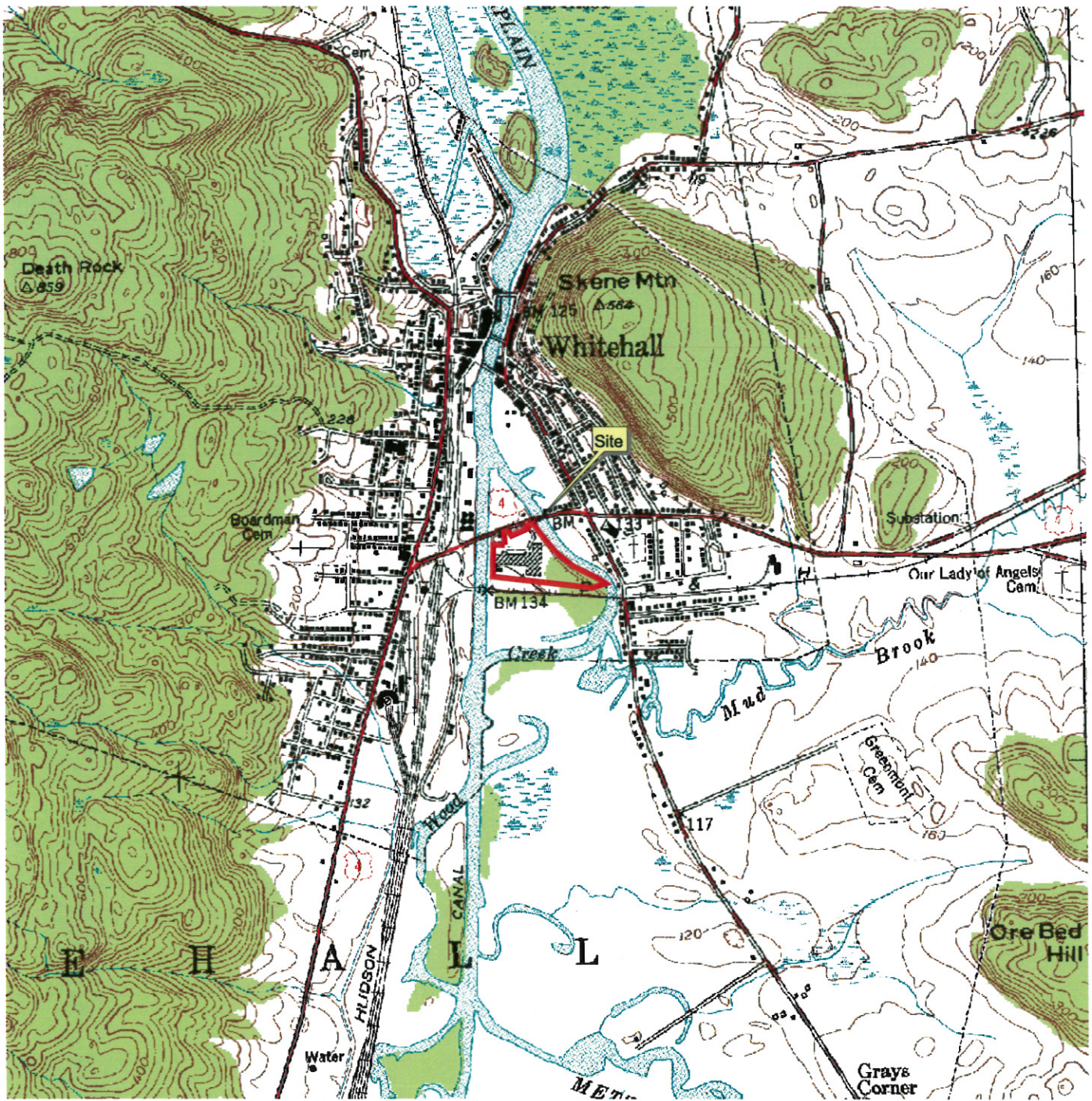
3/25/2010 (FD) is a duplicate of MW-2A

12/14/2012 (FD) is a duplicate of MW-10A

5/1/2014 (FD) is a duplicate of BMW-15A

11/2/2017 (FD) is a duplicate of BMW-15A

FIGURE 1
SITE LOCATION MAP



MAP REFERENCE
 USGS Topographic Map
 Whitehall, NY Quadrangle, Dated 2000
 7.5 Minute Series, NAD 83 UTM18N
 Topo downloaded from CUGIRon 7/8/10



ARCHITECTURE &
 BUILDING SYSTEMS ENGINEERING
 CIVIL ENGINEERING
 ENVIRONMENTAL SERVICES
 SURVEY & LAND INFORMATION
 SERVICES

C.T.MALE ASSOCIATES, P.C.

50 CENTURY HILL DRIVE, PO BOX 727, LATHAM, NY 12110
 PHONE (518) 786-7400 FAX (518) 786-7299

FIGURE 1 SITE LOCATION MAP

Old Champlain Mill

VILLAGE OF WHITEHALL

WASHINGTON COUNTY, NY

SCALE: 1"=1,000'

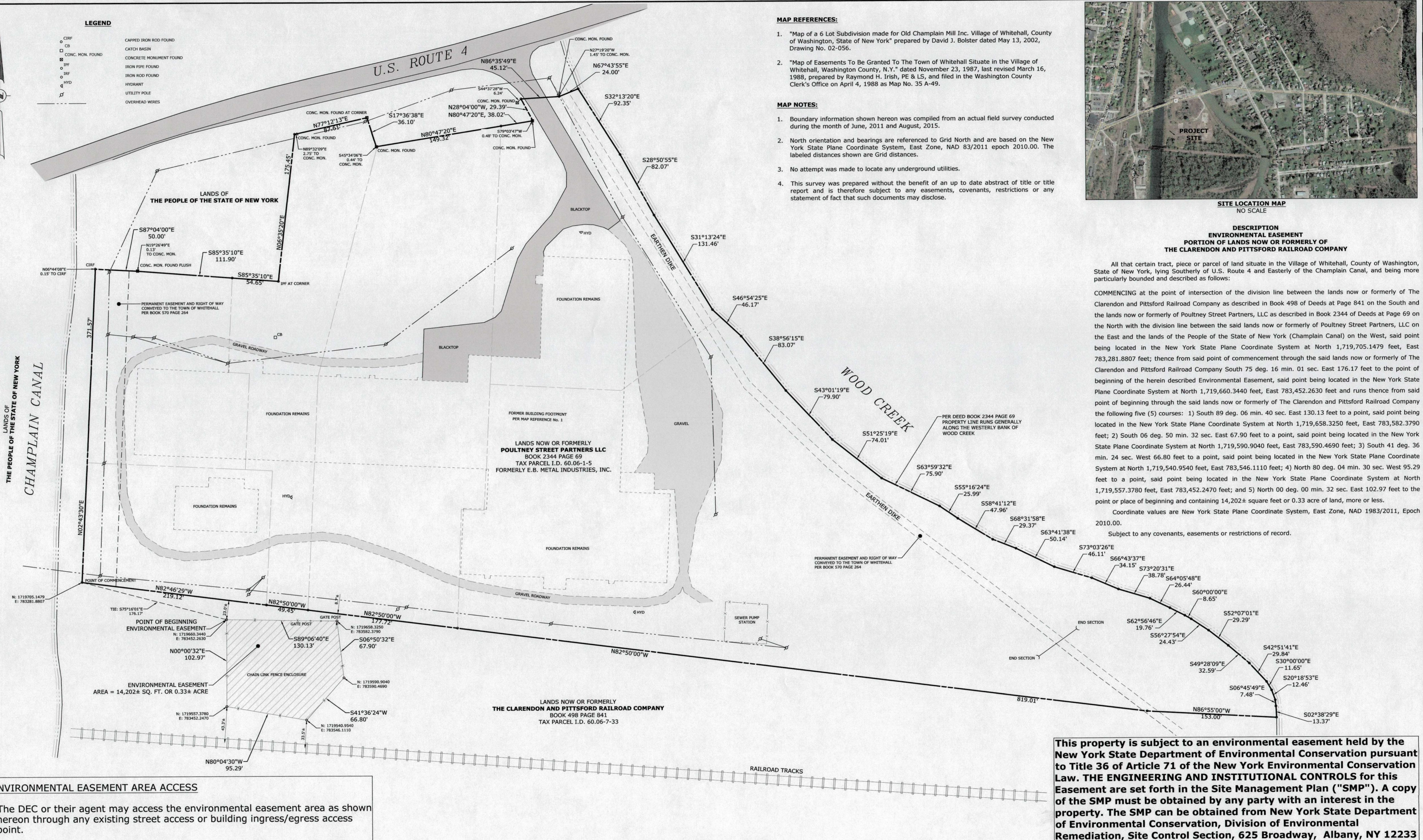
DRAFTER: JLM

PROJECT NO: 06.6448

FIGURE 2
EASEMENT SURVEY

LEGEND

- CIRF
 - CB
 - CONC. MON. FOUND
 - IRF
 - IRP
 - IRF
 - HYD
 - U
 - W
- CAPPED IRON ROD FOUND
 - CATCH BASIN
 - CONCRETE MONUMENT FOUND
 - IRON PIPE FOUND
 - IRON ROD FOUND
 - HYDRANT
 - UTILITY POLE
 - OVERHEAD WIRES



MAP REFERENCES:

- "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall, County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, Drawing No. 02-056.
- "Map of Easements To Be Granted To The Town of Whitehall Situate in the Village of Whitehall, Washington County, N.Y." dated November 23, 1987, last revised March 16, 1988, prepared by Raymond H. Irish, PE & LS, and filed in the Washington County Clerk's Office on April 4, 1988 as Map No. 35 A-49.

MAP NOTES:

- Boundary information shown hereon was compiled from an actual field survey conducted during the month of June, 2011 and August, 2015.
- North orientation and bearings are referenced to Grid North and are based on the New York State Plane Coordinate System, East Zone, NAD 83/2011 epoch 2010.00. The labeled distances shown are Grid distances.
- No attempt was made to locate any underground utilities.
- This survey was prepared without the benefit of an up to date abstract of title or title report and is therefore subject to any easements, covenants, restrictions or any statement of fact that such documents may disclose.



DESCRIPTION ENVIRONMENTAL EASEMENT PORTION OF LANDS NOW OR FORMERLY OF THE CLARENDON AND PITTSFORD RAILROAD COMPANY

All that certain tract, piece or parcel of land situate in the Village of Whitehall, County of Washington, State of New York, lying Southerly of U.S. Route 4 and Easterly of the Champlain Canal, and being more particularly bounded and described as follows:

COMMENCING at the point of intersection of the division line between the lands now or formerly of The Clarendon and Pittsford Railroad Company as described in Book 498 of Deeds at Page 841 on the South and the lands now or formerly of Poultney Street Partners, LLC as described in Book 2344 of Deeds at Page 69 on the North with the division line between the said lands now or formerly of Poultney Street Partners, LLC on the East and the lands of the People of the State of New York (Champlain Canal) on the West, said point being located in the New York State Plane Coordinate System at North 1,719,705.1479 feet, East 783,281.8807 feet; thence from said point of commencement through the said lands now or formerly of The Clarendon and Pittsford Railroad Company South 75 deg. 16 min. 01 sec. East 176.17 feet to the point of beginning of the herein described Environmental Easement, said point being located in the New York State Plane Coordinate System at North 1,719,660.3440 feet, East 783,452.2630 feet and runs thence from said point of beginning through the said lands now or formerly of The Clarendon and Pittsford Railroad Company the following five (5) courses: 1) South 89 deg. 06 min. 40 sec. East 130.13 feet to a point, said point being located in the New York State Plane Coordinate System at North 1,719,658.3250 feet, East 783,582.3790 feet; 2) South 06 deg. 50 min. 32 sec. East 67.90 feet to a point, said point being located in the New York State Plane Coordinate System at North 1,719,590.9040 feet, East 783,590.4690 feet; 3) South 41 deg. 36 min. 24 sec. West 66.80 feet to a point, said point being located in the New York State Plane Coordinate System at North 1,719,557.3780 feet, East 783,452.2470 feet; and 5) North 00 deg. 00 min. 32 sec. East 102.97 feet to the point or place of beginning and containing 14,202± square feet or 0.33 acre of land, more or less.

Coordinate values are New York State Plane Coordinate System, East Zone, NAD 1983/2011, Epoch 2010.00.

Subject to any covenants, easements or restrictions of record.

This property is subject to an environmental easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the New York Environmental Conservation Law. THE ENGINEERING AND INSTITUTIONAL CONTROLS for this Easement are set forth in the Site Management Plan ("SMP"). A copy of the SMP must be obtained by any party with an interest in the property. The SMP can be obtained from New York State Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, NY 12233 or at derweb@dec.ny.gov.

ENVIRONMENTAL EASEMENT AREA ACCESS

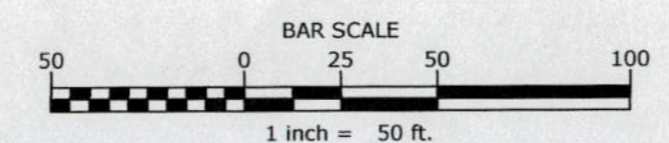
The DEC or their agent may access the environmental easement area as shown hereon through any existing street access or building ingress/egress access point.

I certify to the following that this survey has been prepared in accordance with the Code of Practice for Land Surveys adopted by the N.Y.S. Association of Professional Land Surveyors as last revised.

The Clarendon and Pittsford Railroad Company
The People of the State of New York, acting through their Commissioner of the Department of Environmental Conservation

James F. Cook 4/5/16
James F. Cook PLS No. 49260 Date

ONLY COPIES OF THIS MAP SIGNED IN RED INK AND EMBOSSED WITH THE SEAL OF AN OFFICER OF C.T. MALE ASSOCIATES OR A DESIGNATED REPRESENTATIVE SHALL BE CONSIDERED TO BE A VALID TRUE COPY.



SITE NO. 401058

	DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW. © 2015 C.T. MALE ASSOCIATES APPROVED: WJN DRAFTED: MDD CHECKED: JFC PROJ. NO: 15.5332 SCALE: 1"=50' DATE: DEC. 1, 2015

ENVIRONMENTAL EASEMENT SURVEY
PORTION OF LANDS NOW OR FORMERLY OF
THE CLARENDON AND PITTSFORD RAILROAD COMPANY
U.S. ROUTE 4

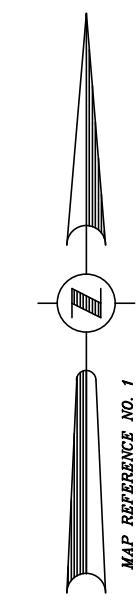
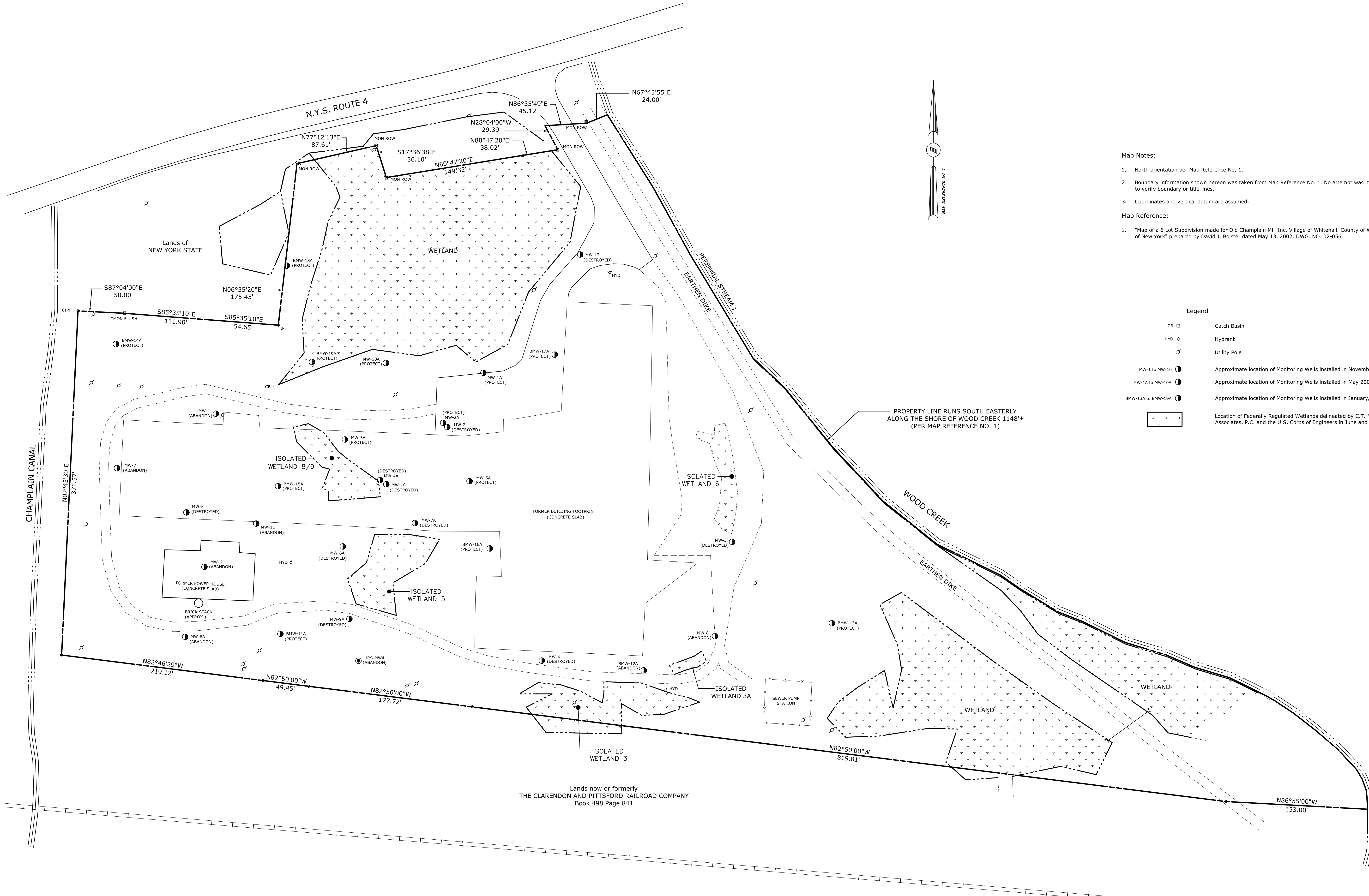
VILLAGE OF WHITEHALL WASHINGTON COUNTY, NEW YORK

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.
50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 * FAX 518.786.7299

SHEET 1 OF 1
DWG. NO: 15-648

FIGURE 3
SITE PLAN

THE PEOPLE OF THE STATE OF NEW YORK



Map Notes:

1. North orientation per Map Reference No. 1.
2. Boundary information shown hereon was taken from Map Reference No. 1. No attempt was made by this office to verify boundary or title lines.
3. Coordinates and vertical datum are assumed.

Map Reference:

1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall, County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02-056.

Legend

CB □	Catch Basin
HYD ◊	Hydrant
U	Utility Pole
MW-1 to MW-10 ●	Approximate location of Monitoring Wells installed in November 2006
MW-1A to MW-10A ●	Approximate location of Monitoring Wells installed in May 2007
BMW-13A to BMW-19A ●	Approximate location of Monitoring Wells installed in January/February 2010
Wetland Pattern	Location of Federally Regulated Wetlands delineated by C.T. Male Associates, P.C. and the U.S. Corps of Engineers in June and July, 2010.

PROPERTY LINE RUNS SOUTH EASTERLY ALONG THE SHORE OF WOOD CREEK 1148'± (PER MAP REFERENCE NO. 1)



"ONLY COPIES OF THIS MAP SIGNED IN RED INK AND EMBOSSED WITH THE SEAL OF AN OFFICER OF C.T. MALE ASSOCIATES OR A DESIGNATED REPRESENTATIVE SHALL BE CONSIDERED TO BE A VALID TRUE COPY."

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW.

DESIGNED: J.MARX
DRAFTED: J.MARX
CHECKED: J.MARX
PROJ. NO: 06.6448
SCALE: 1"=50'
DATE: DEC. 18, 2017

FIGURE 3
SITE PLAN SHOWING MONITORING WELLS

OLD CHAMPLAIN MILL

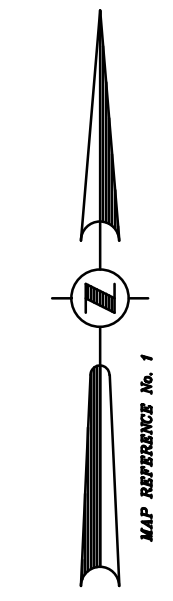
VILLAGE OF WHITEHALL WASHINGTON COUNTY, NEW YORK

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 * FAX 518.786.7299

SHEET 1 OF 2
DWG. NO: 17-726

FIGURE 4
TOTAL VOCS IN GROUNDWATER (2017)
ISOCONCENTRATION CONTOUR MAP

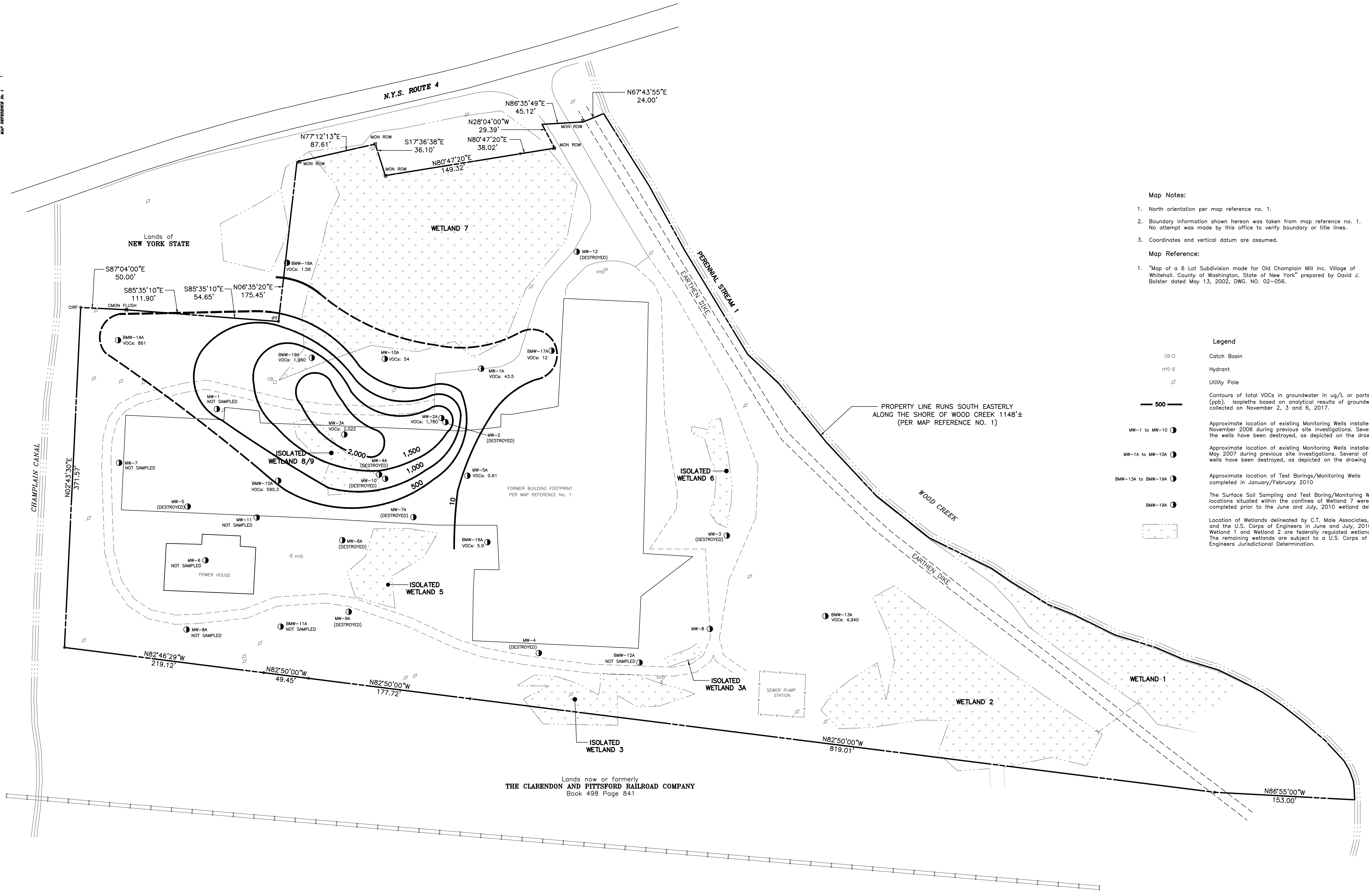


THE PEOPLE OF THE STATE OF NEW YORK

CHAMPLAIN CANAL

Lands of NEW YORK STATE

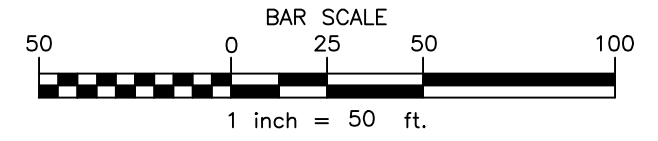
Lands now or formerly THE CLARENDON AND PITTSFORD RAILROAD COMPANY Book 498 Page 841



- Map Notes:**
1. North orientation per map reference no. 1.
 2. Boundary information shown hereon was taken from map reference no. 1. No attempt was made by this office to verify boundary or title lines.
 3. Coordinates and vertical datum are assumed.

- Map Reference:**
1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall, County of Washington, State of New York" prepared by David J. Bolser dated May 13, 2002, DWG. NO. 02-056.

- Legend**
- CB □ Catch Basin
 - HYD ◊ Hydrant
 - U Pole Utility Pole
 - 500 — Contours of total VOCs in groundwater in ug/L or parts per billion (ppb). Isoleths based on analytical results of groundwater samples collected on November 2, 3 and 6, 2017.
 - MW-1 to MW-10 ● Approximate location of existing Monitoring Wells installed in November 2006 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing.
 - MW-1A to MW-10A ● Approximate location of existing Monitoring Wells installed in May 2007 during previous site investigations. Several of the wells have been destroyed, as depicted on the drawing.
 - BMW-13A to BMW-19A ● Approximate location of Test Borings/Monitoring Wells completed in January/February 2010.
 - BMW-19A ● The Surface Soil Sampling and Test Boring/Monitoring Well locations situated within the confines of Wetland 7 were completed prior to the June and July, 2010 wetland delineation.
 - Wetland Delineation Location of Wetlands delineated by C.T. Male Associates, P.C. and the U.S. Corps of Engineers in June and July, 2010. Wetland 1 and Wetland 2 are federally regulated wetlands. The remaining wetlands are subject to a U.S. Corps of Engineers Jurisdictional Determination.



DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.

FIGURE 4
TOTAL VOCs IN GROUNDWATER (2017) ISOCONCENTRATION
CONTOUR MAP

OLD CHAMPLAIN MILL SITE

VILLAGE OF WHITEHALL WASHINGTON COUNTY, NY

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 • FAX 518.786.7299

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW.
© 2017 C.T. MALE ASSOCIATES
APPROVED:
DRAFTED : J.MARX
CHECKED :
PROJ. NO: 06.6448
SCALE : 1"=50'
DATE : DEC. 18, 2017

SHEET 2 OF 2
DWG. NO: 17-726

CAD DWG. FILE NAME: FIGURE-6B.DWG

"ONLY COPIES OF THIS MAP SIGNED IN RED INK AND EMBOSSED WITH THE SEAL OF AN OFFICER OF C.T. MALE ASSOCIATES, P.C. OR A DESIGNATED REPRESENTATIVE SHALL BE CONSIDERED TO BE A VALID TRUE COPY"

CAD DWG. FILE NAME: FIGURE-6B.DWG

APPENDIX A
ENVIRONMENTAL EASEMENT

-----*

Official Receipt for Recording In:

Washington County Clerk
 383 Broadway
 Building A
 Fort Edward, New York 12828

Issued To:
 BONITCH AND COFFEY
 17 ELK STREET
 ALBANY NY 12207

Recording Fees

Filing Type	Number	Vol	Page	Time	Recording Amount
-------------	--------	-----	------	------	------------------

Easement	00114807	03828	00185	11:41:22a	95.00
Recording Fees				75.00	
Recording-County				1.00	
Records Management				4.75	
State Surcharge				14.25	
DR-POULTNEY STREET PARTNERS LLC IN-PEOPLE OF THE STATE OF NEW YORK					

Cover Page	00114807			11:41:22a	5.00
Recording-County				5.00	

Tax-Transfer	00114807	03828	00185	11:41:22a	.00
DR-POULTNEY STREET PARTNERS LLC IN-PEOPLE OF THE STATE OF NEW YORK					

TP584 Affidavit	00009357			11:47:00a	5.00
Filing Papers				5.00	
Transfer Tax				(1.00)	
Transfer Tax County				1.00	

105.00

Collected Amounts

Payment Type	Amount
--------------	--------

Check	1505	105.00
		105.00

Total Received :	105.00
Less Total Recordings:	105.00
Change Due :	.00

Thank You
 STEPHANIE LEMERY - County Clerk

By - Stephanie Lemery

Receipt# Date Time
 0397141 08/18/2017 12:00p

Washington County
Stephanie Lemery County Clerk
383 Broadway Building A
Fort Edward, New York 12828

Doc#: 00114807
Bk: 3828 Pg: 185



60 2017 00114807

Volm-3828 Pg-185

Instrument Number: 2017- 00114807

As

Recorded On: August 18, 2017

Easement

Parties: POULTNEY STREET PARTNERS LLC

To

PEOPLE OF THE STATE OF NEW YORK

Billable Pages: 11

Recorded By: BOWITCH AND COFFEY

Num Of Pages: 12

Comment:

**** Examined and Charged as Follows: ****

Easement	95.00	Cover Page	5.00	TP584 Affidavit	5.00
Recording Charge:	105.00				
	Amount	Consideration Amount	RS#/CS#		
Tax-Transfer	0.00	0.00	RS 176	Basic	0.00
WHITEHALL				Local	0.00
				Additional	0.00
				Special Additional	0.00
				Transfer	0.00
Tax Charge:	0.00				

Received
County Clerks Office
Aug 18, 2017 11:41A
Washington County
Stephanie Lemery

**** THIS PAGE IS PART OF THE INSTRUMENT ****

I hereby certify that the within and foregoing was recorded in the Clerk's Office For: Washington County, NY

File Information:

Record and Return To:

Document Number: 2017- 00114807
Receipt Number: 397141
Recorded Date/Time: August 18, 2017 11:41:22A
Book-Vol/Pg: Bk-R VI-3828 Pg-185
Cashier / Station: S Lemery / Cashier Station 3

BOWITCH AND COFFEY
17 ELK STREET
ALBANY NY 12207



Stephanie C. Lemery

Stephanie C. Lemery
Washington County Clerk

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36
OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 3RD day of AUGUST, 2017, between Owner(s) Poultney Street Partners, LLC, having an office at c/o Donnelly Industries Inc., 557 Route 23 South, Wayne, New Jersey 07470, County of Passaic, State of New Jersey (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 16-50 Poultney Street in the Village of Whitehall, County of Washington and State of New York, known and designated on the tax map of the County Clerk of Washington as tax map parcel numbers: Section 60.6 Block 1 Lot 5, being the same as that property conveyed to Grantor by deed dated March 15, 2007 and recorded in the Washington County Clerk's Office in Liber and Page 2344/69. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 11.74 +/- acres, and is hereinafter more fully described in the Land Title Survey dated July 10, 2017 prepared by William J. Nettleton, L.L.S. of C.T. Male Associates, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation

established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: A5-0608-0708, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Washington County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining

contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

**This property is subject to an Environmental Easement held
by the New York State Department of Environmental Conservation**

pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:
(i) are in-place;
(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to: Site Number: C558036
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to: Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and

communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

Poultney Street Partners, LLC:

By: Rod Donnelly

Print Name: Rod Donnelly

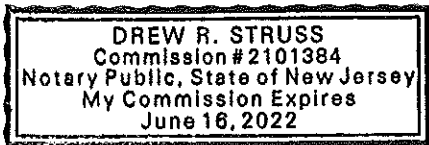
Title: MANAGING MEMBER Date: July 24, 2017

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF)

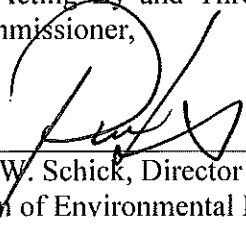
On the 24 day of July, in the year 2017, before me, the undersigned, personally appeared Rod Donnelly, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Drew R. Struss
Notary Public - State of New ~~York~~ Jersey



THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

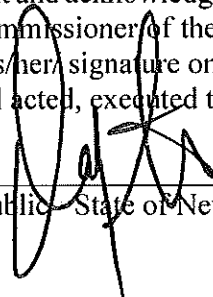
By:


Robert W. Schick, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 3rd day of August, in the year 2017, before me, the undersigned, personally appeared Robert W. Schick, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.



Notary Public - State of New York

David J. Chlusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2018

SCHEDULE "A" PROPERTY DESCRIPTION

**DESCRIPTION
LANDS NOW OR FORMERLY OF
POULTNEY STREET PARTNERS, LLC
VILLAGE OF WHITEHALL, COUNTY OF WASHINGTON,
STATE OF NEW YORK
AREA = 11.74± ACRES OF LAND**

All that certain tract, piece or parcel of land situate in the Village of White Hall, County of Washington, State of New York, lying Southerly of U.S. Route 4 (S.H. No. 1880) and Easterly of the Champlain Canal, and being more particularly bounded and described as follows:

BEGINNING at the point of intersection of the division line between the lands now or formerly of Poultney Street Partners, LLC as described in Book 2344 of Deeds at Page 69 on the North and the lands now or formerly of Clarendon and Pittsford Railroad Company as described in Book 498 of Deeds at Page 841 on the South with the division line between the said lands now or formerly of Poultney Street Partners, LLC on the East and the lands of the People of the State of New York (Champlain Canal) on the West, said point being located in the New York State Plane Coordinate System at North 1,719,705.1479 feet, East 783,281.8807 feet and runs thence from said point of beginning along the last mentioned division line North 02 deg. 43 min. 30 sec. East 371.57 feet to its point of intersection with the division line between the said lands now or formerly of Poultney Street Partners, LLC on the South and the lands of the People of the State of New York (Champlain Canal) on the North; thence along said division line the South 87 deg. 04 min. 00 sec. East 50.00 feet to its point of intersection with the Southerly highway boundary of U.S. Route 4 (S.H. No. 1880); thence along said Southerly highway boundary South 85 deg. 35 min. 10 sec. East 166.55 feet to its point of intersection with the Easterly highway boundary of U.S. Route 4 (S.H. No. 1880); thence North 06 deg. 35 min. 20 sec. East along said Easterly highway boundary 175.45 feet to its point of intersection with the Southerly highway boundary of U.S. Route 4 (S.H. No. 1880); thence along said Southerly highway boundary North 77 deg. 12 min. 13 sec. East 87.61 feet to its point of intersection with the Westerly highway boundary of U.S. Route 4 (S.H. No.

1880); thence along said Westerly highway boundary South 17 deg. 36 min. 38 sec. East 36.10 feet to its point of intersection with the Southerly highway boundary of U.S. Route 4 (S.H. No. 1880); thence North 80 deg. 47 min. 20 sec. East along said Southerly highway boundary 187.34 feet to its point of intersection with the Northeasterly highway boundary of U.S. Route 4 (S.H. No. 1880); thence North 28 deg. 04 min. 00 sec. West along said Northeasterly highway boundary 29.39 feet to its point of intersection with the Southerly highway boundary of U.S. Route 4 (S.H. No. 1880); thence along said Southerly highway boundary the following two (2) courses: 1) North 86 deg. 35 min. 49 sec. East 45.12 feet to a point; and 2) North 67 deg. 43 min. 55 sec. East 24.00 feet to its point of intersection with the division line between the said lands now or formerly of Poultney Street Partners, LLC on the Southwest, West and South and the Wood Creek on the Northeast, East and North; thence along said division line and generally along the Westerly bank of said Wood Creek the following twenty-six (26) courses: 1) South 32 deg. 13 min. 20 sec. East 92.35 feet to a point; 2) South 28 deg. 50 min. 55 sec. East 82.07 feet to a point; 3) South 31 deg. 13 min. 24 sec. East 131.46 feet to a point; 4) South 46 deg. 54 min. 25 sec. East 46.17 feet to a point; 5) South 38 deg. 56 min. 15 sec. East 83.07 feet to a point; 6) South 43 deg. 01 min. 19 sec. East 79.90 feet to a point; 7) South 51 deg. 25 min. 19 sec. East 74.01 feet to a point; 8) South 63 deg. 59 min. 32 sec. East 75.90 feet to a point; 9) South 55 deg. 16 min. 24 sec. East 25.99 feet to a point; 10) South 58 deg. 41 min. 12 sec. East 47.96 feet to a point; 11) South 68 deg. 31 min. 58 sec. East 29.37 feet to a point; 12) South 63 deg. 41 min. 38 sec. East 50.14 feet to a point; 13) South 73 deg. 03 min. 26 sec. East 46.11 feet to a point; 14) South 66 deg. 43 min. 37 sec. East 34.15 feet to a point; 15) South 73 deg. 20 min. 31 sec. East 38.78 feet to a point; 16) South 64 deg. 05 min. 48 sec. East 26.44 feet to a point; 17) South 62 deg. 56 min. 46 sec. East 19.76 feet to a point; 18) South 60 deg. 00 min. 00 sec. East 8.65 feet to a point; 19) South 56 deg. 27 min. 54 sec. East 24.43 feet to a point; 20) South 52 deg. 07 min. 01 sec. East 29.29 feet to a point; 21) South 49 deg. 28 min. 09 sec. East 32.59 feet to a point; 22) South 42 deg. 51 min. 41 sec. East

29.84 feet to a point; 23) South 30 deg. 00 min. 00 sec. East 11.65 feet to a point; 24) South 20 deg. 18 min. 53 sec. East 12.46 feet to a point; 25) South 06 deg. 45 min. 49 sec. East 7.48 feet to a point; and 26) South 02 deg. 38 min. 29 sec. East 13.37 feet to its point of intersection with the division line between the said lands now or formerly of Poultney Street Partners, LLC on the North and the said lands now or formerly of the Clarendon and Pittsford Railroad Company on the South; thence along said division line the following three (3) courses: 1) North 86 deg. 55 min. 00 sec. West 153.00 feet to a point; 2) North 82 deg. 50 min. 00 sec. West 1,046.18 feet to a point; and 3) North 82 deg. 46 min. 29 sec. West 219.12 feet to the point or place of beginning and containing 11.74± acres of land, more or less.

APPENDIX B
DIGITAL COPY OF THE FER (CD)

APPENDIX C
AGENCY APPROVALS

New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Technical Support, 11th Floor
625 Broadway, Albany, New York 12233-7020
Phone: (518) 402-9553 • **FAX:** (518) 402-9595
Website: www.dec.ny.gov



February 20, 2008

Mr. Gerard J. Donnelly, Jr.
Managing Member
Poultney Street Partners, LLC
26 North Center Street
Orange, NJ 07050

Re: Application for Amendment
Old Champlain Mill, C558036

Dear Mr. Donnelly:

The New York State Department of Environmental Conservation (Department) is in receipt of your amended application to include investigation with remediation for participation in the Brownfield Cleanup Program (BCP) pursuant to ECL Section 27-1400 et seq. We are pleased to advise you that your application for amendment has been determined to be complete.

Previously, you fulfilled your requirements of publishing the legal notice in a local newspaper servicing the site area as well as mailing the public notice to parties on the site contact list. Therefore, you are not required to do so as a condition of this Amendment. However, a copy of this Amended Application is to be placed in your document repository.

Sincerely,

Kelly A. Lewandowski

Kelly A. Lewandowski, P.E.
Chief
Site Control Section

Electronic copy w/ pdf application:

A. Thorne, Project Manager
R. Huyck, RHWE Region 5
C. Vasudevan, DER Remedial Bureau A
D. Christian, O.C. Superfund and Voluntary Cleanup Bureau
M. Lesser, O.C. Region 5
A. Hohenstein, NYS OSC
G. Litwin, NYS DOH
S. Bolesky

New York State Department of Environmental Conservation
Division of Environmental Remediation, 12th Floor
625 Broadway, Albany, New York 12233-7011
Phone: (518) 402-9706 • FAX: (518) 402-9020
Website: www.dec.ny.gov



Alexander B. Grannis
Commissioner

SEP 09 2008

Gary Bowitch, Esq.
Law Office of Gary Bowitch
119 Washington Avenue
Albany, New York 12210

RE: Poultney Street Partners, LLC
16-50 Poultney Street,
Whitehall, New York
Site # C558036, Index #A5-0608-0708

Dear Mr. Bowitch:

Your client's application for the above-referenced Brownfield Cleanup Program project has been reviewed by the New York State Department of Environmental Conservation ("Department"). On behalf of Commissioner Grannis, I am pleased to inform you that their request for participation in the Brownfield Cleanup Program as a Volunteer is accepted.

Please contact Alicia Thorne, the Department's project manager, to discuss the program's requirements and work plan. The work plan will determine the scope of work to be conducted and completed.

For purposes of the Brownfield Redevelopment Tax Credit, any site preparation costs, on-site remediation costs and the tangible property credit component available for any qualified site shall only include costs paid or incurred by the taxpayer on or after the date of Brownfield Site Cleanup Agreement ("BCA") is fully executed by the Volunteer and the Department pursuant to Section 27-1409 of the Environmental Conservation Law ("ECL") and Section 22 of the Tax Law. The Department is prepared to execute a BCA for the site identified as 16-50 Poultney Street, Whitehall, Washington County, New York based upon the facts and information in the application, information contained in the Department's records, and a timely return by Poultney Street Partners, LLC of three signed copies of the BCA. A reassessment of eligibility may result in a denial of the application if there are any changes to material facts and information before the BCA is fully executed or if the signed BCA (and any required documentation) is not returned to the Department no later than thirty (30) days from your receipt of this letter.

Enclosed are three copies of the proposed BCA. Please have an authorized representative sign all three copies where indicated and return them to the project manager's attention. Please provide proof that the party signing has authority to bind the Volunteer. The BCA shall not be effective until it is fully executed by both the Volunteer and the Department.

You may contact Alicia Thorne, the project manager, (ajthorne@dec.state.ny.us) 518- 623-1238 or Cindylou Dixon, the project attorney, (cfdixon@dec.state.ny.us) 518- 402-9494 to discuss the next steps.

Sincerely,

A handwritten signature in black ink, appearing to read "Dale A. Desnoyers", with a long, sweeping flourish extending to the right.

Dale A. Desnoyers
Director
Division of Environmental Remediation

Enclosures

cc: S. Ervolina
C. Vasudevan
R. Huyck
D. Christian
M. VonWergers
K. Lewandoski
A. Thorne
C. Dixon

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the Matter of a Remedial Program for
Old Champlain Mill, 16-50 Poultney Street,
Whitehall, New York under Article 27,
Title 14 of the Environmental Conservation Law
by Poultney Street Partners, LLC

BROWNFIELD SITE
CLEANUP AGREEMENT

Index # A5-0608-0708

Site # C558036

WHEREAS, the Brownfield Cleanup Program was enacted to encourage the voluntary remediation of brownfield sites for reuse and redevelopment so as to advance the policy of the State of New York to conserve, improve, and protect its natural resources and environment, and control water, land, and air pollution; and

WHEREAS, the Department of Environmental Conservation (the "Department") is authorized to administer the Brownfield Cleanup Program contained in Article 27, Title 14 of the Environmental Conservation Law ("ECL"); and

WHEREAS, by a certified application dated February 18, 2008, Applicant Poultney Street Partners, LLC, a limited liability corporation organized under the State of New York with a mailing address of 26 North Center Street, Orange, New Jersey, 07050, submitted a request to participate in the Brownfield Cleanup Program relative to property located at 16-50 Poultney Street in the Village of Whitehall, County of Washington; the Department has accepted the application for real property described as Tax map number 60.6-1-5 (the "Site"). A map of the Site showing its general location is attached as Exhibit "A"; and

WHEREAS, the current use of the Site is vacant land. The intended use of the Site is commercial; and

WHEREAS, an opportunity for public comment on Applicant's request to participate in the Brownfield Cleanup Program was provided and the Department duly considered all comments received; and

WHEREAS, upon consideration of the factors enumerated in ECL 27-1407(8) and (9), the Department made a determination, based upon the information contained in the application and the certifications made by the Applicant, as well as any public comment received, that

Applicant is eligible to participate in the Brownfield Cleanup Program as a Volunteer as defined in ECL 27-1405(1)(b).

NOW, THEREFORE, IN CONSIDERATION OF AND IN EXCHANGE FOR THE MUTUAL COVENANTS AND PROMISES, THE PARTIES AGREE TO THE FOLLOWING:

I. Citizen Participation Plan

Within twenty (20) Days after the effective date of this Agreement, Applicant shall submit for review and approval a written citizen participation plan prepared in accordance with the requirements of ECL 27-1417 and 6 NYCRR 375-1.10 and 375-3.10. Upon approval, the Citizen Participation Plan shall be deemed to be incorporated into and made a part of this Agreement.

II. Development, Performance, and Reporting of Work Plans

A. Work Plan Requirements

The work plans (“Work Plan” or “Work Plans”) under this Agreement shall be prepared and implemented in accordance with the requirements of ECL Article 27, Title 14, 6 NYCRR 375-1.6(a), 375-3.6, and 375-6, and all applicable laws, rules, regulations, and guidance documents. The Work Plans shall be captioned as follows:

1. “Remedial Investigation Work Plan” if the Work Plan provides for the investigation of the nature and extent of contamination within the boundaries of the Site and emanating from such Site;
2. “Remedial Work Plan” if the Work Plan provides for the development and implementation of a Remedial Program for contamination within the boundaries of the Site and contamination that has emanated from such Site;
3. “IRM Work Plan” if the Work Plan provides for an interim remedial measure;
4. “Site Management Plan” if the Work Plan provides for the identification and implementation of institutional and/or engineering controls as well as any necessary monitoring and/or operation and maintenance of the remedy.

B. Submission/Implementation of Work Plans

1. The first proposed Work Plan to be submitted under this Agreement shall be submitted no later than thirty (30) Days after the effective date of this Agreement. Thereafter, the Applicant can submit such other and additional work plans as it deems appropriate.

2. Any proposed Work Plan shall be submitted for the Department's review and approval and shall include, at a minimum, a chronological description of the anticipated activities, a schedule for performance of those activities, and sufficient detail to allow the Department to evaluate that Work Plan. The Department shall use best efforts in accordance with 6 NYCRR 375-3.6(b) to approve, modify, or reject a proposed Work Plan within forty-five (45) Days from its receipt or within fifteen (15) Days from the close of the comment period, if applicable, whichever is later.

i) Upon the Department's written approval of a Work Plan, such Department-approved Work Plan shall be deemed to be incorporated into and made a part of this Agreement and shall be implemented in accordance with the schedule contained therein.

ii) If the Department requires modification of a Work Plan, the reason for such modification shall be provided in writing and the provisions of 6 NYCRR 375-1.6(d)(3) shall apply.

iii) If the Department disapproves a Work Plan, the reason for such disapproval shall be provided in writing and the provisions of 6 NYCRR 375-1.6(d)(4) shall apply.

3. A Site Management Plan, if necessary, shall be submitted in accordance with the schedule set forth in the IRM Work Plan or Remedial Work Plan.

4. During all field activities conducted under a Department-approved Work Plan, Applicant shall have on-Site a representative who is qualified to supervise the activities undertaken in accordance with the provisions of 6 NYCRR 375-1.6(a)(3).

C. Submission of Final Reports

1. In accordance with the schedule contained in an approved Work Plan, Applicant shall submit a Final Report for an Investigation Work Plan prepared in accordance with ECL 27-1411(1) and 6 NYCRR 375-1.6. If such Final Report concludes that no remediation is necessary, and the Site does not meet the requirements for Track 1, Applicant shall submit an Alternatives Analysis prepared in accordance with ECL 27-1413 and 6 NYCRR 375-3.8(f) that supports such determination.

2. In accordance with the schedule contained in an approved Work Plan, Applicant shall submit a Final Engineering Report certifying that remediation of the Site has been performed in accordance with the requirements of ECL 27-1419(1) and (2) and 6 NYCRR 375-1.6(c). The Department shall review such Report, the submittals made pursuant to this Agreement, and any other relevant information regarding the Site and make a determination as to whether the goals of the remedial program have been or will be achieved in accordance with established time frames; if so, a written Certificate of Completion will be issued in accordance with ECL 27-1419, 6 NYCRR 375-1.9 and 6 NYCRR 375-3.9.

3. Within sixty (60) Days of the Department's approval of a Final Report, Applicant shall submit such additional Work Plans as it proposes to implement. Failure to submit any additional Work Plans within such period shall, unless other Work Plans are under review by the Department or being implemented by Applicant, result in the termination of this Agreement pursuant to Paragraph XIII.

D. Review of Submittals other than Work Plans

1. The Department shall timely notify Applicant in writing of its approval or disapproval of each submittal other than a Work Plan. All Department-approved submittals shall be incorporated into and become an enforceable part of this Agreement.

2. If the Department disapproves a submittal covered by this Subparagraph, it shall specify the reason for its disapproval and may request Applicant to modify or expand the submittal. Within fifteen (15) Days after receiving written notice that Applicant's submittal has been disapproved, Applicant shall elect in writing to either (i) modify or expand it within thirty (30) Days of receipt of the written notice of disapproval; (ii) complete any other Department-approved Work Plan(s); (iii) invoke dispute resolution pursuant to Paragraph XIV; or (iv) terminate this Agreement pursuant to Paragraph XIII. If Applicant submits a revised submittal and it is disapproved, the Department and Applicant may pursue whatever remedies may be available under this Agreement or under law.

E. Department's Determination of Need for Remediation

The Department shall determine upon its approval of each Final Report dealing with the investigation of the Site whether remediation, or additional remediation as the case may be, is needed for protection of public health and the environment.

1. If the Department makes a preliminary determination that remediation, or additional remediation, is not needed for protection of public health and the environment, the Department shall notify the public of such determination and seek public comment in accordance with ECL 27-1417(3)(f). The Department shall provide timely notification to the Applicant of its final determination following the close of the public comment period.

2. If the Department determines that additional remediation is not needed and such determination is based upon use restrictions, Applicant shall cause to be recorded an Environmental Easement in accordance with 6 NYCRR 375-1.8(h).

3. If the Department determines that remediation, or additional remediation, is needed, Applicant may elect to submit for review and approval a proposed Remedial Work Plan (or modify an existing Work Plan for the Site) for a remedy selected upon due consideration of the factors set forth in ECL 27-1415(3) and 6 NYCRR 375-1.8(f). A proposed Remedial Work Plan addressing the Site's remediation will be noticed for public comment in accordance

with ECL 27-1417(3)(f) and the Citizen Participation Plan developed pursuant to this Agreement. If the Department determines following the close of the public comment period that modifications to the proposed Remedial Work Plan are needed, Applicant agrees to negotiate appropriate modifications to. If Applicant elects not to develop a Work Plan under this Subparagraph or if either party concludes that a mutually acceptable Work Plan under this Subparagraph cannot be negotiated, then this Agreement shall terminate in accordance with Subparagraph XIII.

F. Institutional/Engineering Control Certification

In the event that the remedy for the Site, if any, or any Work Plan for the Site, requires institutional or engineering controls, Applicant shall submit a written certification in accordance with 6 NYCRR 375-1.8(h)(3) and 375-3.8(h)(2).

III. Enforcement

This Agreement shall be enforceable as a contractual agreement under the laws of the State of New York. The Applicant shall not suffer any penalty or be subject to any proceeding or action if it cannot comply with any requirement of this Agreement as a result of a Force Majeure Event as described at 6 NYCRR 375-1.5(b)(4) provided Applicant complies with the requirements set forth therein.

IV. Entry upon Site

A. Applicant hereby agrees to provide access to the Site and to all relevant information regarding activities at the Site in accordance with the provisions of ECL 27-1431.

B. The Department shall have the right to periodically inspect the Site to ensure that the use of the property complies with the terms and conditions of this Agreement.

V. Payment of State Costs

A. Within forty-five (45) Days after receipt of an itemized invoice from the Department, Applicant shall pay to the Department a sum of money which shall represent reimbursement for State Costs as provided by 6 NYCRR 375-1.5 (b)(3)(I).

B. Personnel service costs shall be documented as provided by 6 NYCRR 375-1.5(b)(3)(ii). The Department shall not be required to provide any other documentation of costs, provided however, that the Department's records shall be available, consistent with, and in accordance with, Article 6 of the Public Officers Law

C. Invoices shall be sent to Applicant at the following address:

Gerard J. Donnelly, Jr. Managing Member

Poultney Street Partners, LLC
26 North Center Street
Orange, New Jersey 07050

D. Each such payment shall be made payable to the Department of Environmental Conservation and shall be sent to:

Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7012

E. Each party shall provide written notification to the other within ninety (90) Days of any change in the foregoing addresses.

F. If Applicant objects to any invoiced costs under this Agreement, the provisions of 6 NYCRR 375-1.5 (b)(3)(v) and (vi) shall apply.

VI. Liability Limitation

Subsequent to the issuance of a Certificate of Completion pursuant to this Agreement, Applicant shall be entitled to the Liability Limitation set forth at ECL 27-1421, subject to the terms and conditions stated therein and to the provisions of 6 NYCRR 375-1.9 and 375-3.9.

VII. Reservation of Rights

A. Except as provided in Subparagraph VII.B, Applicant reserves all rights and defenses under applicable law to contest, defend against, dispute, or disprove any action, proceeding, allegation, assertion, determination, or order of the Department, including any assertion of remedial liability by the Department against Applicant, and further reserves all rights including the rights to notice, to be heard, to appeal, and to any other due process respecting any action or proceeding by the Department, including the enforcement of this Agreement. The existence of this Agreement or Applicant's compliance with it shall not be construed as an admission of any liability, fault, wrongdoing, or violation of law by Applicant, and shall not give rise to any presumption of law or finding of fact which shall inure to the benefit of any third party.

B. Notwithstanding the foregoing, Applicant hereby waives any right it may have to make a claim pursuant to Article 12 of the Navigation Law with respect to the Site and releases the State and the New York Environmental Protection and Spill Compensation Fund from any and all legal or equitable claims, suits, causes of action, or demands whatsoever with respect to

the Site that Applicant may have as a result of Applicant's entering into or fulfilling the terms of this Agreement.

VIII. Indemnification

Applicant shall indemnify and hold the Department, the State of New York, and their representatives and employees harmless from any claim, suit, action, and cost of every name and description arising out of or resulting from the fulfillment or attempted fulfillment of this Agreement by Applicant prior to the Termination Date except for those claims, suits, actions, and costs arising from the State's gross negligence or willful or intentional misconduct by the Department, the State of New York, and/or their representatives and employees during the course of any activities conducted pursuant to this Agreement. The Department shall provide Applicant with written notice no less than thirty (30) Days prior to commencing a lawsuit seeking indemnification pursuant to this Paragraph.

IX. Change of Use

Applicant shall notify the Department at least sixty (60) Days in advance of any change of use, as defined in ECL 27-1425, which is proposed for the Site, in accordance with the provisions of 6 NYCRR 375-1.11(d). In the event the Department determines that the proposed change of use is prohibited, the Department shall notify Applicant of such determination within forty-five (45) Days of receipt of such notice.

X. Environmental Easement

A. Within thirty (30) Days after the Department's approval of a Remedial Work Plan which relies upon one or more institutional and/or engineering controls, or within thirty (30) Days after the Department's determination pursuant to Subparagraph II.E.2 that additional remediation is not needed based upon use restrictions, Applicant shall submit to the Department for approval an Environmental Easement to run with the land in favor of the State which complies with the requirements of ECL Article 71, Title 36 and 6 NYCRR 375-1.8(h)(2). Applicant shall cause such instrument to be recorded with the recording officer for the county in which the Site is located within thirty (30) Days after the Department's approval of such instrument. Applicant shall provide the Department with a copy of such instrument certified by the recording officer to be a true and faithful copy within thirty (30) Days of such recording (or such longer period of time as may be required to obtain a certified copy provided Applicant advises the Department of the status of its efforts to obtain the same within such thirty (30) Day period), which shall be deemed to be incorporated into this Agreement .

B. Applicant or the owner of the Site may petition the Department to modify or extinguish the Environmental Easement filed pursuant to this Agreement at such time as it can certify that the Site is protective of human health and the environment without reliance upon the restrictions set forth in such instrument. Such certification shall be made by a Professional

Engineer or other expert approved by the Department. The Department will not unreasonably withhold its consent.

XI. Progress Reports

Applicant shall submit a written progress report of its actions under this Agreement to the parties identified in Subparagraph XII.A.1 by the 10th day of each month commencing with the month subsequent to the approval of the first Work Plan and ending with the Termination Date, unless a different frequency is set forth in a Work Plan. Such reports shall, at a minimum, include: all actions relative to the Site during the previous reporting period and those anticipated for the next reporting period; all approved activity modifications (changes of work scope and/or schedules); all results of sampling and tests and all other data received or generated by or on behalf of Applicant in connection with this Site, whether under this Agreement or otherwise, in the previous reporting period, including quality assurance/quality control information; information regarding percentage of completion; unresolved delays encountered or anticipated that may affect the future schedule and efforts made to mitigate such delays; and information regarding activities undertaken in support of the Citizen Participation Plan during the previous reporting period and those anticipated for the next reporting period.

XII. Communications

A. All written communications required by this Agreement shall be transmitted by United States Postal Service, by private courier service, by hand delivery, or by electronic mail.

1. Communication from Applicant shall be sent to:

Alicia Thorne, P.E., Project Manager
New York State Department of Environmental Conservation
Region 5
P.O. Box 220
232 Golf Course Road
Warrensburg, New York 12885
ajthorne@gw.dec.state.us

Note: three hard copies (one unbound) of work plans are required, as well as one electronic copy.

Gary Litwin
Bureau of Environmental Exposure Investigation
New York State Department of Health
Flanigan Square
547 River Street
Troy, New York 12180-2216
gal09@health.state.ny.us

Note: two copies of work plans are required, and

Cindylou Dixon, Esq.
New York State Department of Environmental Conservation
625 Broadway, 14th Floor
Albany, New York 12233-1500
cfdixon@gw.dec.state.us

Correspondence only

2. Communication from the Department to Applicant shall be sent to:

Gerard J. Donnelly, Jr., Managing Member
Poultney Street Partners, LLC
26 North Center Street
Orange, New Jersey 07050

Gary Bowitch, Esq.
119 Washington Avenue
Albany, New York 12210
bowitchlaw@earthlink.net

B. The Department and Applicant reserve the right to designate additional or different addressees for communication on written notice to the other.

C. Each party shall notify the other within ninety (90) Days after any change in the addresses listed in this Paragraph XII or in Paragraph V.

XIII. Termination of Agreement

Applicant or the Department may terminate this Agreement consistent with the provisions of 6 NYCRR 375-3.5(b), (c) and (d) by providing written notification to the parties listed in Subparagraph XII.A.

XIV. Dispute Resolution

In the event disputes arise under this Agreement, Applicant may, within fifteen (15) Days after Applicant knew or should have known of the facts which are the basis of the dispute, initiate dispute resolution in accordance with the provisions of 6 NYCRR 375-1.5(b)(2).

XV. Miscellaneous

A. If the information provided and any certifications made by Applicant are not materially accurate and complete, this Agreement, except with respect to Applicant's obligations pursuant to Paragraphs V, VII.B, and VIII, shall be null and void *ab initio* fifteen (15) Days after the Department's notification of such inaccuracy or incompleteness or fifteen (15) Days after issuance of a final decision resolving a dispute pursuant to Paragraph XIV, whichever is later, unless Applicant submits information within that fifteen (15) Day time period indicating that the information provided and the certifications made were materially accurate and complete. In the event this Agreement is rendered null and void, any Certificate of Completion and/or Liability Limitation that may have been issued or may have arisen under this Agreement shall also be null and void *ab initio*, and the Department shall reserve all rights that it may have under law.

B. By entering into this Agreement, Applicant agrees to comply with and be bound by the provisions of 6 NYCRR Subparts 375-1, 375-3 and 375-6; the provisions of such Subparts that are referenced herein are referenced for clarity and convenience only and the failure of this Agreement to specifically reference any particular regulatory provision is not intended to imply that such provision is not applicable to activities performed under this Agreement.

C. The Department may exempt Applicant from the requirement to obtain any state or local permit or other authorization for any activity conducted pursuant to this Agreement in accordance with 6 NYCRR 375-1.12(b), (c), and (d).

D. 1. Applicant shall use "best efforts" to obtain all Site access, permits, easements, approvals, institutional controls, and/or authorizations necessary to perform Applicant's obligations under this Agreement, including all Department-approved Work Plans and the schedules contained therein. If, despite Applicant's best efforts, any access, permits, easements, approvals, institutional controls, or authorizations cannot be obtained, Applicant shall promptly notify the Department and include a summary of the steps taken. The Department may, as it deems appropriate and within its authority, assist Applicant in obtaining same.

2. If an interest in property is needed to implement an institutional control required by a Work Plan and such interest cannot be obtained, the Department may require Applicant to modify the Work Plan pursuant to 6 NYCRR 375-1.6(d)(3) to reflect changes necessitated by Applicant's inability to obtain such interest.

E. The paragraph headings set forth in this Agreement are included for convenience of reference only and shall be disregarded in the construction and interpretation of any provisions of this Agreement.

F. 1. The terms of this Agreement shall constitute the complete and entire agreement between the Department and Applicant concerning the implementation of the activities required by this Agreement. No term, condition, understanding, or agreement purporting to modify or vary any term of this Agreement shall be binding unless made in writing and subscribed by the party to be bound. No informal advice, guidance, suggestion, or comment

by the Department shall be construed as relieving Applicant of Applicant's obligation to obtain such formal approvals as may be required by this Agreement. In the event of a conflict between the terms of this Agreement and any Work Plan submitted pursuant to this Agreement, the terms of this Agreement shall control over the terms of the Work Plan(s). Applicant consents to and agrees not to contest the authority and jurisdiction of the Department to enter into or enforce this Agreement.

2. i. Except as set forth herein, if Applicant desires that any provision of this Agreement be changed, Applicant shall make timely written application to the Commissioner with copies to the parties listed in Subparagraph XII.A.1.

ii. If Applicant seeks to modify an approved Work Plan, a written request shall be made to the Department's project manager, with copies to the parties listed in Subparagraph XII.A.1.

iii. Requests for a change to a time frame set forth in this Agreement shall be made in writing to the Department's project attorney and project manager; such requests shall not be unreasonably denied and a written response to such requests shall be sent to Applicant promptly.

G. 1. If there are multiple parties signing this Agreement, the term "Applicant" shall be read in the plural, the obligations of each such party under this Agreement are joint and several, and the insolvency of or failure by any Applicant to implement any obligations under this Agreement shall not affect the obligations of the remaining Applicant(s) under this Agreement.

2. If Applicant is a partnership, the obligations of all general partners (including limited partners who act as general partners) under this Agreement are joint and several and the insolvency or failure of any general partner to implement any obligations under this Agreement shall not affect the obligations of the remaining partner(s) under this Agreement.

3. Notwithstanding the foregoing Subparagraphs XV.G.1 and 2, if multiple parties sign this Agreement as Applicants but not all of the signing parties elect to implement a Work Plan, all Applicants are jointly and severally liable for each and every obligation under this Agreement through the completion of activities in such Work Plan that all such parties consented to; thereafter, only those Applicants electing to perform additional work shall be jointly and severally liable under this Agreement for the obligations and activities under such additional Work Plan(s). The parties electing not to implement the additional Work Plan(s) shall have no obligations under this Agreement relative to the activities set forth in such Work Plan(s). Further, only those Applicants electing to implement such additional Work Plan(s) shall be eligible to receive the Liability Limitation referenced in Paragraph VI.

H. Applicant shall be entitled to receive contribution protection and/or to seek contribution to the extent authorized by ECL 27-1421(6) and 6 NYCRR 375-1.5(b)(5).

I. Applicant shall not be considered an operator of the Site solely by virtue of having executed and/or implemented this Agreement.

J. Applicant and Applicant's agents, grantees, lessees, sublessees, successors, and assigns shall be bound by this Agreement. Any change in ownership of Applicant including, but not limited to, any transfer of assets or real or personal property, shall in no way alter Applicant's responsibilities under this Agreement.

K. Unless otherwise expressly provided herein, terms used in this Agreement which are defined in ECL Article 27 or in regulations promulgated thereunder shall have the meaning assigned to them under said statute or regulations.

L. Applicants' obligations under this Agreement represent payment for or reimbursement of response costs, and shall not be deemed to constitute any type of fine or penalty.

M. This Agreement may be executed for the convenience of the parties hereto, individually or in combination, in one or more counterparts, each of which shall be deemed to have the status of an executed original and all of which shall together constitute one and the same.

N. The effective date of this Agreement is the date it is signed by the Commissioner or the Commissioner's designee.

DATED:

ALEXANDER B. GRANNIS
COMMISSIONER
NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

By:

Dale A. Desnoyers, Director
Division of Environmental Remediation

CONSENT BY APPLICANT

Applicant hereby consents to the issuing and entering of this Agreement, waives Applicant's right to a hearing herein as provided by law, and agrees to be bound by this Agreement.

Poultney Street Partners, LLC

By: _____

Title: _____

Date: _____

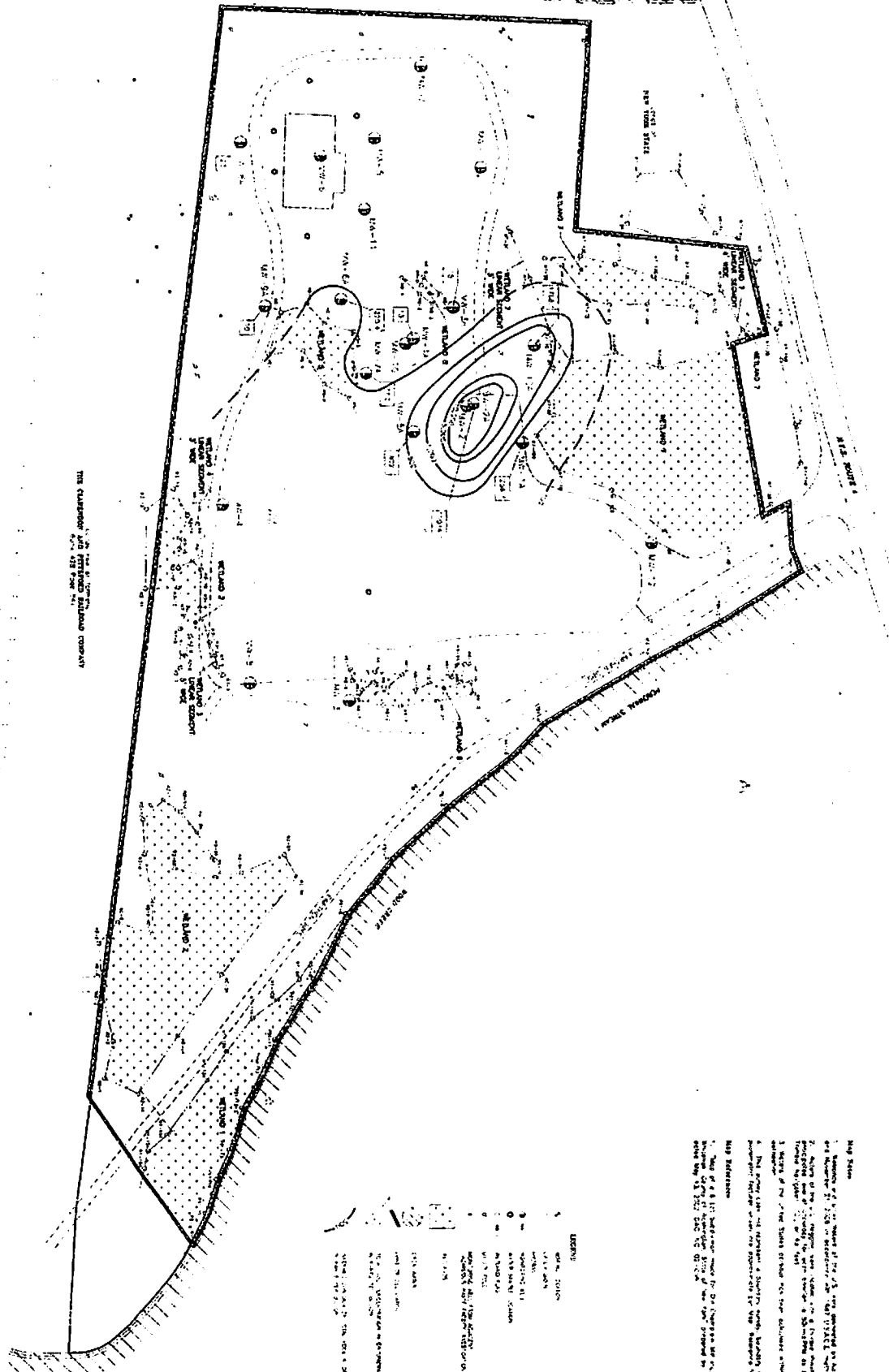
STATE OF NEW YORK)
) ss:
COUNTY OF)

On the _____ day of _____, in the year 200_, before me, the undersigned, personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Signature and Office of individual
taking acknowledgment

EXHIBIT "A"

Map



THE CLASSROOM AND RETIRED BUILDING COMPANY

DATE	APPROVED BY (NAME/TITLE)	APPROVED BY (SIGNATURE)	REVISIONS
10/1/00	[Signature]	[Signature]	1. Initial Design
10/1/00	[Signature]	[Signature]	2. Final Design
10/1/00	[Signature]	[Signature]	3. Construction Documents
10/1/00	[Signature]	[Signature]	4. Final Report

FIGURE 8 DISTRIBUTION OF TOTAL VOCs IN GROUNDWATER FOR WELLS MW-1A, MW-20A SUPPLEMENTAL PHASE 2 ENVIRONMENTAL SITE ASSESSMENT CTD CHAMPLAIN MILL SITE	
PREPARED BY: C.T. MALE ASSOCIATES, P.C. 1000 WEST 10TH STREET SUITE 200 CHAMPLAIN, NEW YORK 12019	PROJECT NO.: 00-00104
SCALE: 1" = 100'	SHEET NO.: 1 OF 7

Map Notes:

1. Map of 8.1 in background used by Dr. Christopher Lee, Ph.D., Director of the Environmental Sciences Division of the New York State Department of Environmental Conservation, dated 10/1/00.
2. Map of 8.1 in background used by Dr. Christopher Lee, Ph.D., Director of the Environmental Sciences Division of the New York State Department of Environmental Conservation, dated 10/1/00.
3. Map of 8.1 in background used by Dr. Christopher Lee, Ph.D., Director of the Environmental Sciences Division of the New York State Department of Environmental Conservation, dated 10/1/00.
4. Map of 8.1 in background used by Dr. Christopher Lee, Ph.D., Director of the Environmental Sciences Division of the New York State Department of Environmental Conservation, dated 10/1/00.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A
625 Broadway, 12th Floor, Albany, NY 12233-7015
P: (518) 402-9625 | F: (518) 402-9627
www.dec.ny.gov

November 27, 2017

Mr. Rod Donnelly
Poultney Street Partners, LLC
557 Route 23 South
Wayne, NJ 07470

Re: Old Champlain Mill
Site ID No. C558036
Whitehall, Washington County, NY
Remedial Work Plan & Decision Document

Dear Mr. Donnelly:

The New York State Department of Environmental Conservation (Department) and the New York State Department of Health (NYSDOH) have reviewed the Remedial Work Plan (RWP) for the Old Champlain Mill site dated May 15, 2017 and prepared by C.T. Male Associates on behalf of the Poultney Street Partners LLC. The RWP is hereby approved. Please ensure that a copy of the approved RWP is placed in the document repositories. The draft plan should be removed.

Attached is a copy of the Department's Decision Document for the site. The remedy is to be implemented in accordance with this Decision Document. Please ensure that a copy of the Decision Document is placed in the document repositories.

Please contact the Department's Project Manager, Michael McLean at (518)897-1241 or mike.mclean@dec.ny.gov at your earliest convenience to discuss next steps.

Sincerely,



Eric Obrecht
Director
Remedial Bureau A
Division of Environmental Remediation

Enclosure

ec w/enc:

M. Ryan

R. Huyck

M. McLean

C. Bethoney

W. Kuehner

DECISION DOCUMENT

Old Champlain Mill
Brownfield Cleanup Program
Whitehall, Washington County
Site No. C558036
November 2017



Prepared by
Division of Environmental Remediation
New York State Department of Environmental Conservation

DECLARATION STATEMENT - DECISION DOCUMENT

Old Champlain Mill
Brownfield Cleanup Program
Whitehall, Washington County
Site No. C558036
November 2017

Statement of Purpose and Basis

This document presents the remedy for the Old Champlain Mill site, a brownfield cleanup site. The remedial program was chosen in accordance with the New York State Environmental Conservation Law and Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR) Part 375.

This decision is based on the Administrative Record of the New York State Department of Environmental Conservation (the Department) for the Old Champlain Mill site and the public's input to the proposed remedy presented by the Department.

Description of Selected Remedy

The elements of the selected remedy: Track 2 – Monitored Natural Attenuation Remedy are as follows:

1. Remedial Design:

A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows;

- considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- reducing direct and indirect greenhouse gases and other emissions;
- increasing energy efficiency and minimizing use of non-renewable energy;
- conserving and efficiently managing resources and materials;
- reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- maximizing habitat value and creating habitat when possible;
- fostering green and healthy communities and working landscapes which balance ecological, economic and social goals; and
- integrating the remedy with the end use where possible and encouraging green and sustainable re-development.

2. Monitored Natural Attenuation:

Groundwater contamination will be addressed with monitored natural attenuation (MNA). Groundwater will be monitored for site related contamination and also for MNA indicators which will provide an understanding of the biological activity breaking down the contamination. Natural anaerobic biodegradation at the site was evaluated by Hatch Mott MacDonald in January of 2013. Their evaluation of site data indicates natural and ongoing breakdown of chlorinated ethenes. It is anticipated that contamination will decrease by an order of magnitude in a reasonable period of time (5 to 10 years). Reports of the attenuation will be provided at 5 and 10 years, and active remediation will be proposed if it appears that natural processes alone will not address the contamination. The contingency remedial action will depend on the information collected, but it is currently anticipated that an in-situ chemical oxidation (ISCO) technology would be the expected contingency remedial action.

3. Institutional Control:

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allow the use and development of the controlled property for commercial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH and;
- require compliance with the Department approved Site Management Plan.

4. Site Management Plan: Site Management Plan:

A Site Management Plan is required, which includes the following:

a. an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:

Institutional Controls: The Environmental Easement as discussed in Paragraph 3 above.

This plan includes, but may not be limited to:

- an excavation plan which details the provisions for management of any future excavations on the site;
- a provision for further investigation and remediation should any redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible. This includes areas the of former buildings (currently concrete slabs) and the brick stack.

- descriptions of the provisions of the environmental easement including any land use, and groundwater use restrictions;
 - a provision for evaluation of the potential for soil vapor intrusion in future buildings developed at the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
 - provisions for the management and inspection of the identified engineering controls;
 - maintaining site access controls and Department notification; and
 - the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.
- b. a Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:
- monitoring of the groundwater to assess the performance and effectiveness of the remedy;
 - a schedule of monitoring and frequency of submittals to the Department;
 - monitoring for vapor intrusion for any future building developed or prior to occupancy of current building on the site, as may be required by the Institutional and Engineering Control Plan discussed above.

Declaration

The remedy conforms with promulgated standards and criteria that are directly applicable, or that are relevant and appropriate and takes into consideration Department guidance, as appropriate. The remedy is protective of public health and the environment.

November 27, 2017
Date

Eric R Obrecht
Eric Obrecht, Director
Remedial Bureau A

DECISION DOCUMENT

Old Champlain Mill
Whitehall, Washington County
Site No. C558036
November 2017

SECTION 1: SUMMARY AND PURPOSE

The New York State Department of Environmental Conservation (the Department), in consultation with the New York State Department of Health (NYSDOH), has selected a remedy for the above referenced site. The disposal of contaminants at the site has resulted in threats to public health and the environment that would be addressed by the remedy. The disposal or release of contaminants at this site, as more fully described in this document, has contaminated various environmental media. Contaminants include hazardous waste and/or petroleum.

The New York State Brownfield Cleanup Program (BCP) is a voluntary program. The goal of the BCP is to enhance private-sector cleanups of brownfields and to reduce development pressure on "greenfields." A brownfield site is real property, the redevelopment or reuse of which may be complicated by the presence or potential presence of a contaminant.

The Department has issued this document in accordance with the requirements of New York State Environmental Conservation Law and 6 NYCRR Part 375. This document is a summary of the information that can be found in the site-related reports and documents.

SECTION 2: CITIZEN PARTICIPATION

The Department seeks input from the community on all remedies. A public comment period was held, during which the public was encouraged to submit comment on the proposed remedy. All comments on the remedy received during the comment period were considered by the Department in selecting a remedy for the site. Site-related reports and documents were made available for review by the public at the following document repositories:

The Whitehall Free Library
Attn: Reference Librarian
12 William Street
Whitehall, NY 12887
Phone: 518-499-1366

NYSDEC Region 5
Attn: Michael McLean
1115 NYS Route 86, PO Box 296
Ray Brook, NY 12977-0296

Phone: 518-897-1254

Village of Whitehall Clerk
1 Saunders Street
Whitehall, NY 12887
Phone: 518-499-0871

Receive Site Citizen Participation Information by E-mail

Please note that the Department's Division of Environmental Remediation (DER) is "going paperless" relative to citizen participation information. The ultimate goal is to distribute citizen participation information about contaminated sites electronically by way of county email listservs. Information will be distributed for all sites that are being investigated and cleaned up in a particular county under the State Superfund Program, Environmental Restoration Program, Brownfield Cleanup Program, Voluntary Cleanup Program, and Resource Conservation and Recovery Act Program. We encourage the public to sign up for one or more county listservs at <http://www.dec.ny.gov/chemical/61092.html>

SECTION 3: SITE DESCRIPTION AND HISTORY

Location: The site is 11.49 acres in size and located in a commercial area at 16-50 Poultney Street in the Village of Whitehall, Washington County. The site is bounded by Wood Creek to the east, the Champlain Canal to the west, and Poultney Street (NYS Route 4) to the north.

Site Features: The site is currently vacant and predominant features include a concrete slab foundation from the former manufacturing building, a large brick smoke stack, and a small municipally owned and maintained sewage pump station. The majority of the site is open with some trees found predominantly within the northwestern sections of the site, and wetlands in the northwestern and southeastern portions of the property. Man-made earthen dikes line the eastern and western property boundaries and serve to protect the site from flooding from the adjacent Wood Creek and Champlain Canal respectively. The adjoining property to the south is owned by the Clarendon & Pittsford Rail Road. Inactive hazardous waste disposal site no. 558019, Poultney Street Site - is located within the rail road property.

Current Zoning and Land Use: The site is commercially zoned in the Village of Whitehall and is currently vacant. A small, active sewage pump station is present on the south east portion of the site.

Past Use of the Site: The site was first developed in the early 1900s and used as a silk knitting mill until 1959. From 1959 until 2001 the site was used to manufacture newspaper vending machines. The on-site buildings, including a 120,000 square foot manufacturing building and a 5,000 square foot power house, were demolished in 2003.

Site Geology and Hydrogeology: Site geology consists of fill material, underlain by alluvial sediments (sands, silts and clays). Depth to groundwater is approximately four feet below grade, and generally flows to the north, east and west. Eight distinct wetlands were identified at the site,

two are connected to Wood Creek and considered federally regulated. Bedrock is approximately 50 to 100 feet below existing grades.

A site location map is attached as Figure 1. Further site detail is attached at Figure 2.

SECTION 4: LAND USE AND PHYSICAL SETTING

The Department may consider the current, intended, and reasonably anticipated future land use of the site and its surroundings when evaluating a remedy for soil remediation. For this site, alternatives (or an alternative) that restrict(s) the use of the site to commercial use (which allows for industrial use) as described in Part 375-1.8(g) were/was evaluated in addition to an alternative which would allow for unrestricted use of the site.

A comparison of the results of the Remedial Investigation (RI) to the appropriate standards, criteria and guidance values (SCGs) for the identified land use and the unrestricted use SCGs for the site contaminants is available in the RI Report.

SECTION 5: ENFORCEMENT STATUS

The Applicant under the Brownfield Cleanup Agreement is a Volunteer. The Applicant does not have an obligation to address off-site contamination. The Department has determined that this site does not pose a significant threat to public health or the environment; accordingly no enforcement actions are necessary.

SECTION 6: SITE CONTAMINATION

6.1: Summary of the Remedial Investigation

A remedial investigation (RI) serves as the mechanism for collecting data to:

- characterize site conditions;
- determine the nature of the contamination; and
- assess risk to human health and the environment.

The RI is intended to identify the nature (or type) of contamination which may be present at a site and the extent of that contamination in the environment on the site, or leaving the site. The RI reports on data gathered to determine if the soil, groundwater, soil vapor, indoor air, surface water or sediments may have been contaminated. Monitoring wells are installed to assess groundwater and soil borings or test pits are installed to sample soil and/or waste(s) identified. If other natural resources are present, such as surface water bodies or wetlands, the water and sediment may be sampled as well. Based on the presence of contaminants in soil and groundwater, soil vapor will also be sampled for the presence of contamination. Data collected in the RI influence the development of remedial alternatives. The RI report is available for review in the site document repository and the results are summarized in section 6.3.

The analytical data collected on this site includes data for:

- groundwater
- soil
- surface water
- sediment

6.1.1: Standards, Criteria, and Guidance (SCGs)

The remedy must conform to promulgated standards and criteria that are directly applicable or that are relevant and appropriate. The selection of a remedy must also take into consideration guidance, as appropriate. Standards, Criteria and Guidance are hereafter called SCGs.

To determine whether the contaminants identified in various media are present at levels of concern, the data from the RI were compared to media-specific SCGs. The Department has developed SCGs for groundwater, surface water, sediments, and soil. The NYSDOH has developed SCGs for drinking water and soil vapor intrusion. For a full listing of all SCGs see: <http://www.dec.ny.gov/regulations/61794.html>

6.1.2: RI Results

The data have identified contaminants of concern. A "contaminant of concern" is a contaminant that is sufficiently present in frequency and concentration in the environment to require evaluation for remedial action. Not all contaminants identified on the property are contaminants of concern. The nature and extent of contamination and environmental media requiring action are summarized below. Additionally, the RI Report contains a full discussion of the data. The contaminant(s) of concern identified at this site is/are:

- | | |
|--------------------------|----------------------------|
| • benzo(a)anthracene | • vinyl chloride |
| • benzo(a)pyrene | • trans-1,2-dichloroethene |
| • benzo(b)fluoranthene | • cis-1,2-dichloroethene |
| • dibenzo[a,h]anthracene | • trichloroethene (TCE) |
| • indeno(1,2,3-CD)pyrene | • dibenzo(b)fluoranthene |

The contaminant(s) of concern exceed the applicable SCGs for:

- groundwater
- soil

6.2: Interim Remedial Measures

An interim remedial measure (IRM) is conducted at a site when a source of contamination or exposure pathway can be effectively addressed before issuance of the Decision Document.

There were no IRMs performed at this site during the RI.

6.3: Summary of Environmental Assessment

This section summarizes the assessment of existing and potential future environmental impacts presented by this site. Environmental impacts may include existing and potential future exposure pathways to fish and wildlife receptors, wetlands, and groundwater resources. The November 2014 Remedial Investigation Report presents a detailed discussion of the existing and potential impacts from the site to fish and wildlife receptors.

Nature and Extent of Contamination: Numerous samples were taken at the site from surface and subsurface soils, surface water, groundwater, and sediments and analyzed for the following: VOCs, SVOCs, pesticides/PCBs, and metals. Previous uses of the site as a knitting mill and a vending machine manufacturer have resulted in contamination in the site's soil and groundwater

Groundwater: Twenty groundwater samples were collected and analyzed at the site. The primary groundwater contaminants of concern are volatile organic compounds (VOCs) including trichloroethene (TCE) and its breakdown products cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride. While TCE contaminant concentrations range from 5.5 to 69 parts per billion (ppb), the breakdown product concentrations were more prevalent and generally higher concentrations ranging from 6 to 6,600 ppb of cis-1,2-dichloroethene, 5.2 to 35 ppb for trans-1,2-dichloroethene, and 2.1 to 1,800 ppb for vinyl chloride. The groundwater plume appears to be concentrated in the northwestern portion of the site in the general vicinity of monitoring well BMW-19A. Two semi-volatile organic compounds (SVOCs) benzo(a)pyrene at 0.17 ppb and indeno(1,2,3-cd) pyrene at 0.73 ppb were detected slightly above their respective standards, criteria and guidance (SCGs) values at one sampling location. There were detections of metals in the groundwater which included one location for lead, five locations for sodium, with iron (12 of 15) and manganese (11 of 15) being the most prevalent. None of the metals are considered site related contaminants of concern. PCBs and pesticides were not detected in groundwater. Initial groundwater sampling was conducted in 2010. The latest sampling round in 2014 compared to data sets from 2007, 2010, and 2012 reflected a similar and stabilized on-site plume with evidence of on-going natural contaminant degradation and no off-site impacts.

Surface Soil: Eighteen surface soil (0–2 inches) samples were collected and analyzed at the site. Six semi-volatile organic compounds (SVOCs) including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(b)fluoranthene, dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene were detected above commercial use SCGs at only one sampling location, benzo(a)pyrene was found in two additional surface soil locations. VOCs, metals, PCBs and pesticides were not detected in surface soils. No surface soil samples were collected off site.

Subsurface Soil: Thirteen subsurface soil samples were collected from depths of 1 to 18 feet below grade for laboratory analysis. Benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were detected in the subsurface soil at only one location above commercial use SCGs; arsenic was also identified in the subsurface soils at two locations above the SCG at 17.3 and 29.7 parts per million (ppm). VOCs, PCBs and pesticides were not detected in subsurface soils. A distinct contaminant source area could not be identified in the extensive soil sampling and investigation work conducted on the site. Subsurface soils under former structures/existing concrete slabs could not be fully evaluated. Provision for additional investigation will be included in the Site Management Plan should site development/subsurface work occur in these areas. Additionally, no off-site subsurface soil impacts were identified.

Wetland Surface Water: Acetone, iron, manganese, and sodium were the only parameters detected in wetland surface water above SCGs. Acetone was detected at one location at 51 ppb just above the SCG of 50 ppb. Iron was identified in all four samples ranging from 529 to 5,410 ppb, the SCG for iron is 300 ppb. Sodium was detected in wetland sample #7 located in close proximity to NYS Route 4 at 81,400 ppb, the SCG for sodium is 20,000 ppb.

Wetland Sediment: Seven metals (arsenic, cadmium, copper, iron, lead, nickel, and zinc) were detected at concentrations just above Class B Sediment Guidance Values (SGVs). Low Class B values are considered to be slightly contaminated. These metals were not identified in site soils above SCOs, and were not utilized at the site and thus are not considered COCs. Additionally, to give the identified contamination perspective, comparing the identified contaminant concentrations to Part 375 Soil clean-up objectives indicate they would meet residential use criteria. VOCs, SVOCs, PCBs and pesticides were not detected in sediment.

Based on the Fish and Wildlife Resource Characterization, there were no unique or unusual habitats identified, no endangered or threatened species were observed to exist at the site and no sensitive ecological resources were observed within the site. Although the Champlain Canal and Wood Creek are adjacent to the site, the man-made dikes prevent any direct surface runoff. Therefore, no complete exposure pathways were identified.

6.4: Summary of Human Exposure Pathways

This human exposure assessment identifies ways in which people may be exposed to site-related contaminants. Chemicals can enter the body through three major pathways (breathing, touching or swallowing). This is referred to as *exposure*.

The site is not fenced and persons who enter the site could contact contaminants in the soil by walking on the soil, digging or otherwise disturbing the soil. People are not coming into contact with the contaminated groundwater because the area is served by a public water supply that is not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. The potential exists for the inhalation of site contaminants due to soil vapor intrusion for any future on-site occupancy and/or development. Soil vapor intrusion concerns are limited on-site only.

6.5: Summary of the Remediation Objectives

The objectives for the remedial program have been established through the remedy selection process stated in 6 NYCRR Part 375. The goal for the remedial program is to restore the site to pre-disposal conditions to the extent feasible. At a minimum, the remedy shall eliminate or mitigate all significant threats to public health and the environment presented by the contamination identified at the site through the proper application of scientific and engineering principles.

The remedial action objectives for this site are:

Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer to pre-disposal conditions to the extent practical
- Prevent the discharge of contaminants to surface water.

Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

Soil Vapor

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

SECTION 7: ELEMENTS OF THE SELECTED REMEDY

The alternatives developed for the site and the evaluation of the remedial criteria are presented in the Alternative Analysis. The remedy is selected pursuant to the remedy selection criteria set forth in DER-10, Technical Guidance for Site Investigation and Remediation and 6 NYCRR Part 375.

The elements of the selected remedy: Track 2 –Monitored Natural Attenuation Remedy are as follows:

1. Remedial Design:

A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows;

- considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- reducing direct and indirect greenhouse gases and other emissions;
- increasing energy efficiency and minimizing use of non-renewable energy;
- conserving and efficiently managing resources and materials;

- reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- maximizing habitat value and creating habitat when possible;
- fostering green and healthy communities and working landscapes which balance ecological, economic and social goals; and
- integrating the remedy with the end use where possible and encouraging green and sustainable re-development.

2. Monitored Natural Attenuation:

Groundwater contamination will be addressed with monitored natural attenuation (MNA). Groundwater will be monitored for site related contamination and also for MNA indicators which will provide an understanding of the biological activity breaking down the contamination. Natural anaerobic biodegradation at the site was also evaluated by Hatch Mott MacDonald in January of 2013. Their evaluation of site data indicates natural and ongoing breakdown of chlorinated ethenes. It is anticipated that contamination will decrease by an order of magnitude in a reasonable period of time (5 to 10 years). Reports of the attenuation will be provided at 5 and 10 years, and active remediation will be proposed if it appears that natural processes alone will not address the contamination. The contingency remedial action will depend on the information collected, but it is currently anticipated that an in-situ chemical oxidation (ISCO) technology would be the expected contingency remedial action.

3. Institutional Control:

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allow the use and development of the controlled property for commercial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH and;
- require compliance with the Department approved Site Management Plan.

4. Site Management Plan: Site Management Plan:

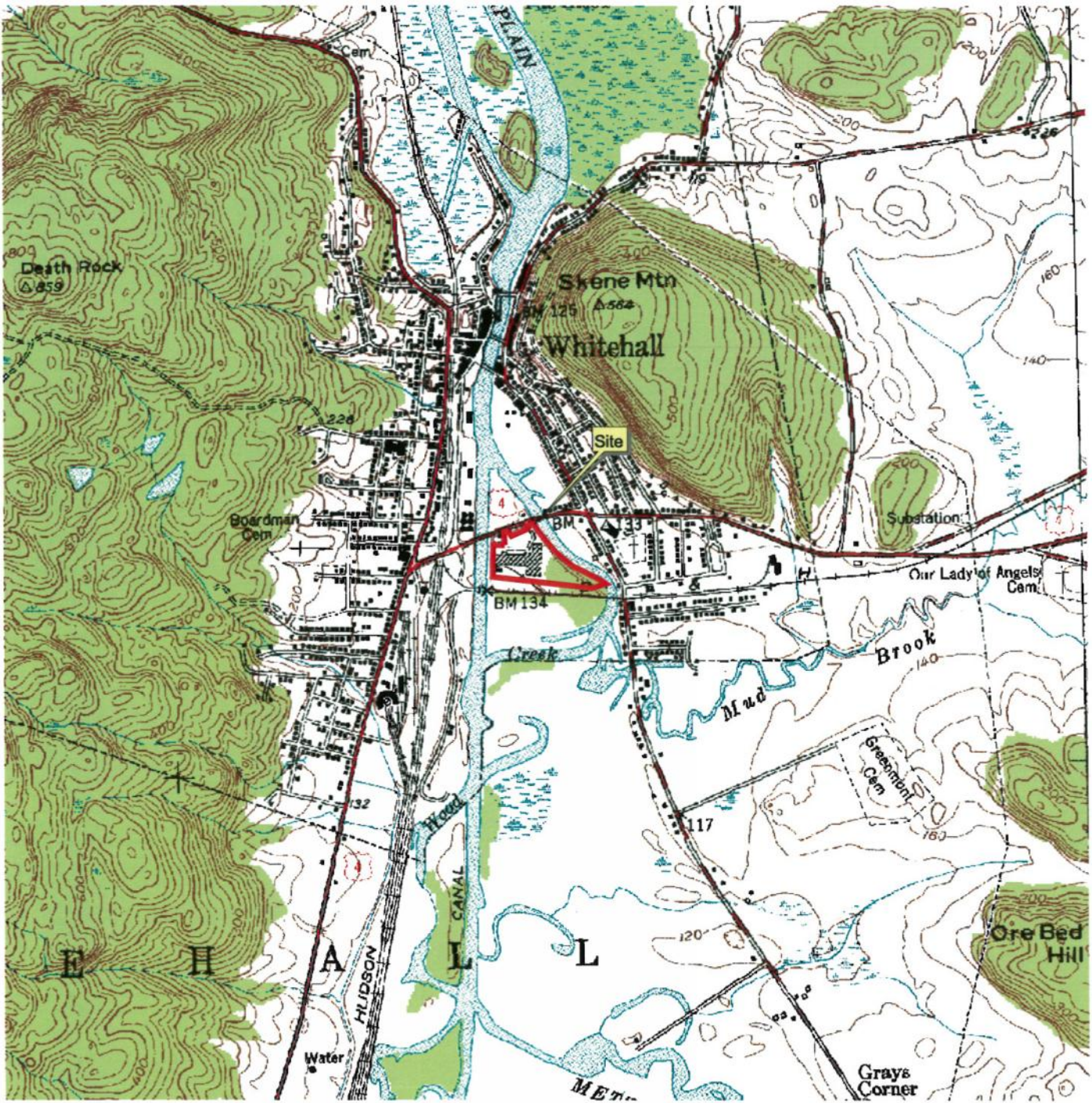
A Site Management Plan is required, which includes the following:

a. an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:

Institutional Controls: The Environmental Easement as discussed in Paragraph 3 above.

This plan includes, but may not be limited to:

- an excavation plan which details the provisions for management of any future excavations on the site;
 - a provision for further investigation and remediation should any redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible. This includes areas the of former buildings (currently concrete slabs) and the brick stack.
 - descriptions of the provisions of the environmental easement including any land use, and groundwater use restrictions;
 - a provision for evaluation of the potential for soil vapor intrusion in future buildings developed at the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
 - provisions for the management and inspection of the identified engineering controls;
 - maintaining site access controls and Department notification; and
 - the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.
5. a Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:
- monitoring of the groundwater to assess the performance and effectiveness of the remedy;
 - a schedule of monitoring and frequency of submittals to the Department;
 - monitoring for vapor intrusion for any future building developed or prior to occupancy of current building on the site, as may be required by the Institutional and Engineering Control Plan discussed above.



MAP REFERENCE
 USGS Topographic Map
 Whitehall, NY Quadrangle, Dated 2000
 7.5 Minute Series, NAD 83 UTM18N
 Topo downloaded from CUGIRon 7/8/10



ARCHITECTURE &
 BUILDING SYSTEMS ENGINEERING
 CIVIL ENGINEERING
 ENVIRONMENTAL SERVICES
 SURVEY & LAND INFORMATION
 SERVICES

C.T.MALE ASSOCIATES, P.C.

50 CENTURY HILL DRIVE, PO BOX 727, LATHAM, NY 12110
 PHONE (518) 786-7400 FAX (518) 786-7299

FIGURE 1 SITE LOCATION MAP

Old Champlain Mill

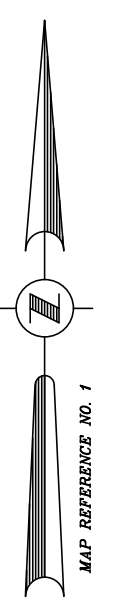
VILLAGE OF WHITEHALL

WASHINGTON COUNTY, NY

SCALE: 1"=1,000'

DRAFTER: JLM

PROJECT NO: 06.6448



THE PEOPLE OF THE STATE OF NEW YORK

CHAMPLAIN CANAL

N.Y.S. ROUTE 4

Lands of NEW YORK STATE

WETLAND (MONITOR AND MAINTAIN VEGETATION)

PROPERTY LINE (SAME AS SITE BOUNDARY)

SITE BOUNDARY SUBJECT TO ENVIRONMENTAL EASEMENT

Map Notes:

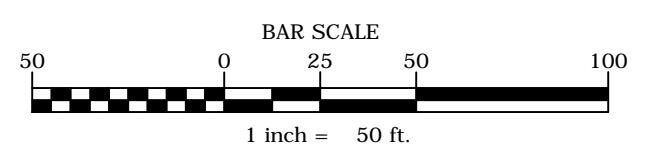
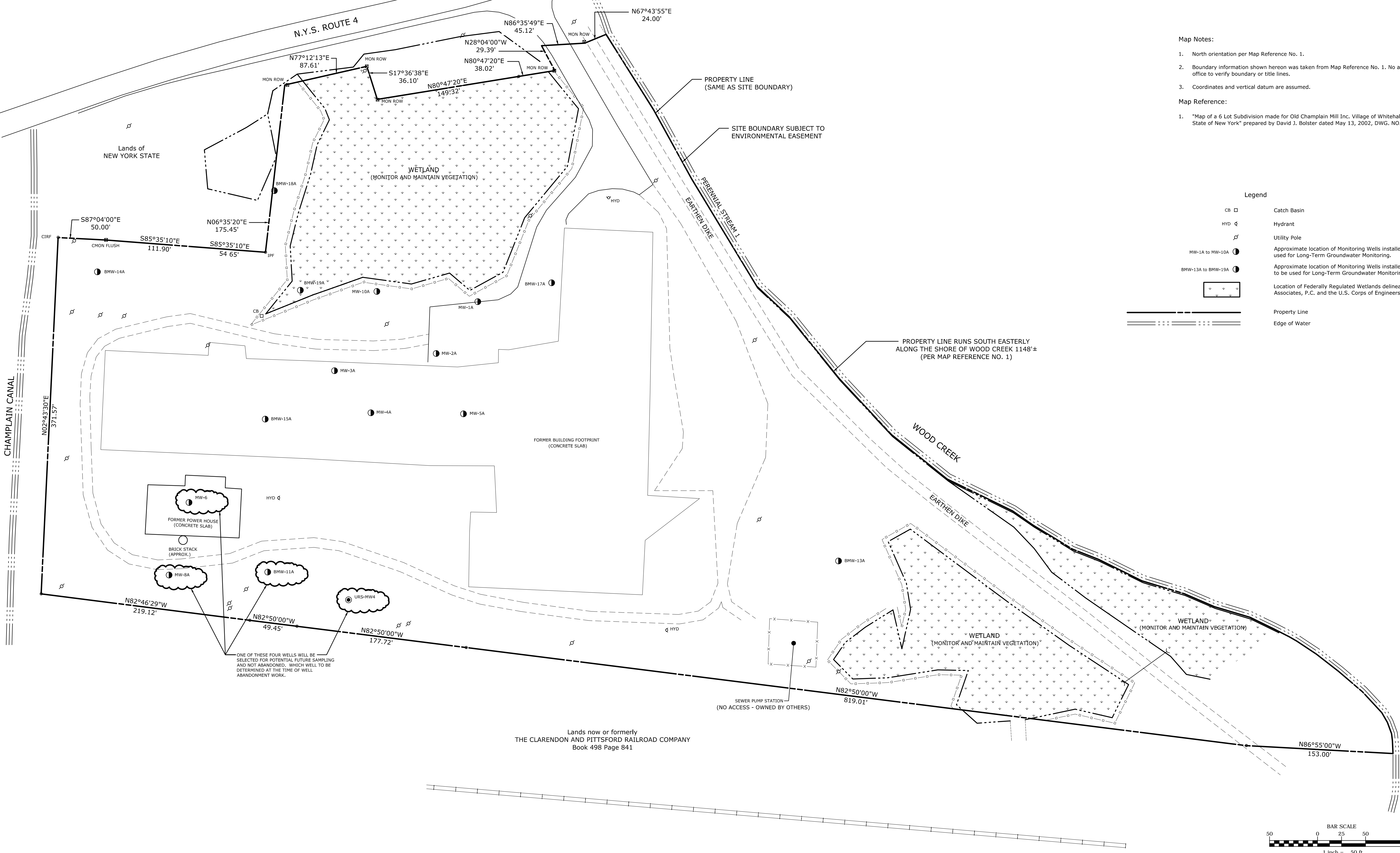
- 1. North orientation per Map Reference No. 1.
- 2. Boundary information shown hereon was taken from Map Reference No. 1. No attempt was made by this office to verify boundary or title lines.
- 3. Coordinates and vertical datum are assumed.

Map Reference:

- 1. "Map of a 6 Lot Subdivision made for Old Champlain Mill Inc. Village of Whitehall. County of Washington, State of New York" prepared by David J. Bolster dated May 13, 2002, DWG. NO. 02-056.

Legend

- CB □ Catch Basin
- HYD ◊ Hydrant
- Utility Pole
- MW-1A to MW-10A ○ Approximate location of Monitoring Wells installed in May 2007 to be used for Long-Term Groundwater Monitoring.
- BMW-13A to BMW-19A ● Approximate location of Monitoring Wells installed in January/February 2010 to be used for Long-Term Groundwater Monitoring.
- Location of Federally Regulated Wetlands delineated by C.T. Male Associates, P.C. and the U.S. Corps of Engineers in June and July, 2010.
- Property Line
- Edge of Water



"ONLY COPIES OF THIS MAP SIGNED IN RED INK AND EMBOSSED WITH THE SEAL OF AN OFFICER OF C.T. MALE ASSOCIATES OR A DESIGNATED REPRESENTATIVE SHALL BE CONSIDERED TO BE A VALID TRUE COPY."

CAD DWG. FILE NAME: K:\Projects\066448\Enr\Drawings\Maps\Figure-2_site plan_Revision.dwg

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW.	FIGURE 2 SITE PLAN	
					© 2017 C.T. MALE ASSOCIATES DESIGNED: S.BEIBER DRAFTED: S.WUNSCH CHECKED: S.BEIBER PROJ. NO: 06.6448 SCALE: 1"=50' DATE: MAY 15, 2017	OLD CHAMPLAIN MILL VILLAGE OF WHITEHALL WASHINGTON COUNTY, NEW YORK	
						C.T. MALE ASSOCIATES Engineering, Surveying, Architecture & Landscape Architecture, D.P.C. 50 CENTURY HILL DRIVE, LATHAM, NY 12110 518.786.7400 * FAX 518.786.7299	
						SHEET 1 OF 1 DWG. NO: 15-205	

APPENDIX D
DATA USABILITY SUMMARY REPORTS

**DATA USABILITY SUMMARY REPORT
OLD CHAMPLAIN MILL, WHITEHALL, NEW YORK**

Client: C.T. Male Associates, Latham, New York
SDG: L1740446
Laboratory: Alpha Analytical, Westborough, Massachusetts
Site: Old Champlain Mill, Whitehall, New York
Date: December 13, 2017

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	BMW-17A	L1740446-01	Water
2	MW-1A	L1740446-02	Water
3	MW-2A	L1740446-03	Water
3MS	MW-2AMS	L1740446-03MS	Water
3MSD	MW-2AMSD	L1740446-03MSD	Water
4	MW-3A	L1740446-04	Water
5	BMW-15A	L1740446-05	Water
6	BMW-14A	L1740446-06	Water
7	FD01-20171103	L1740446-07	Water
8	BMW-18A	L1740446-08	Water
9	TRIP BLANK	L1740446-09	Water

Note: The sample collection dates were incorrect on the Form Is for EDS Sample ID #s 2-9. The reviewer amended the Form Is accordingly.

A Data Usability Summary Review was performed on the analytical data for eight water samples and one aqueous trip blank sample collected on November 2-3, 2017 by CT Male at the Old Champlain Mill site in Whitehall, New York. The samples were analyzed under Environmental Protection Agency (USEPA) "Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions".

Specific method references are as follows:

Analysis
VOC

Method References
USEPA SW-846 Method 8260C

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-24, Revision 4, September 2014: Validating Volatile Organic Compounds by SW-846 Method 8260B & 8260C;
- and the reviewer's professional judgment.

The following items/criteria were reviewed:

Organics

- Data Completeness
- Holding times and sample preservation
- Gas Chromatography (GC)/Mass Spectrometry (MS) tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Date Quality Assessment

There were no rejections of data.

Overall the data are acceptable for the intended purposes as qualified for the following deficiencies.

- Two compounds were qualified as estimated in all samples due to high continuing calibration %D values.
- Three compounds were qualified as estimated in one sample due to low and high MS/MSD recoveries.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedences of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable percent relative standard deviation (%RSD) and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded various percent difference (%D) and/or RRF values <0.05 (<0.01 for poor performers) in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
11/8/17	1,2-Dichloropropane	21.2%	J/UJ	All Samples
	1,1,2,2-Tetrachloroethane	27.9%		

Method Blank

- The method blank samples were free of contamination.

Field Blank

- The field QC samples exhibited the following contamination.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
TRIP BLANK	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

MS/MSD Sample ID	Compound	MS %R/MSD %R/ RPD	Qualifier
3	1,1-Dichloroethane	OK/140%/OK	None - Sample ND
	1,2-Dichloropropane	140%/140%/OK	
	1,1,2-Trichloroethane	OK/140%/OK	
	1,1,2,2-Tetrachloroethane	140%/150%/OK	
	Chloromethane	160%/170%/OK	
	Bromomethane	OK/OK/27	None - RPD Alone
	Vinyl Chloride	170%/180%/OK	J
	Chloroethane	160%/160%/OK	None - Sample ND
	Trichloroethene	60%/40%/OK	J
	cis-1,2-Dichloroethene	50%/50%/OK	None - Sample ND
	Carbon Disulfide	OK/140%/OK	
	2-Butanone	140%/140%/OK	
	Cyclohexane	140%/140%/OK	

Laboratory Control Samples (LCS)

- All LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- EDS Sample ID #4 exhibited a high concentration of cis-1,2-dichloroethene which exceeded the calibration range and was flagged (E) by the laboratory. The sample was diluted 25X and the dilution result should be used for reporting purposes.
- Several samples were analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

VOCs				
Compound	BMW-15A ug/L	FD01-20171103 ug/L	RPD	Qualifier
Vinyl Chloride	160	180	12%	None
1,1-Dichloroethene	1.1	1.2	9%	
trans-1,2-Dichloroethene	16	17	6%	
Trichloroethene	2.3	2.1	9%	
cis-1,2-Dichloroethene	340	390	14%	

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver
Nancy Weaver
Senior Chemist

Dated: 12/14/17

Data Qualifiers

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was analyzed for, but was not detected above the sample reporting limit.
- R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-01
 Client ID : BMW-17A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P07
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 14:30
 Date Received : 11/03/17
 Date Analyzed : 11/08/17 23:23
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND <i>uJ</i>	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND <i>uJ</i>	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	12	1.0	0.07	
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U

NW12/13/17



Form 1 VOA

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Lab ID : L1740446-01
Client ID : BMW-17A
Sample Location : WHITEWALL, NY
Sample Matrix : WATER
Analytical Method : 1,8260C
Lab File ID : V05171108P07
Sample Amount : 10 ml
Level : LOW
Extract Volume (MeOH) : N/A

Lab Number : L1740446
Project Number : 06.6448
Date Collected : 11/02/17 14:30
Date Received : 11/03/17
Date Analyzed : 11/08/17 23:23
Dilution Factor : 1
Analyst : PD
Instrument ID : VOA105
GC Column : RTX-502.2
%Solids : N/A
Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Form 1 VOA

2

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-02
 Client ID : MW-1A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P08
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 08:30
 Date Received : 11/03/17
 Date Analyzed : 11/08/17 23:49
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

03

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND UJ	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND UJ	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	33	1.0	0.07	
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U



NW12/13/17

Form 1
VOA

2

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-02
 Client ID : MW-1A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P08
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448 03
 Date Collected : 11/02/17 08:30
 Date Received : 11/03/17
 Date Analyzed : 11/08/17 23:49
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

NW

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	10	2.5	0.70	
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	0.33	10	0.27	J
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

NW12/13/17



Form 1 VOA

3

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-03D
 Client ID : MW-2A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P14
 Sample Amount : 1 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448 ⁰³ MW
 Date Collected : 11/02/17 09:35
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 02:19
 Dilution Factor : 10
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	25	7.0	U
75-34-3	1,1-Dichloroethane	ND	25	7.0	U
67-66-3	Chloroform	ND	25	7.0	U
56-23-5	Carbon tetrachloride	ND	5.0	1.3	U
78-87-5	1,2-Dichloropropane	ND ^{uJ}	10	1.4	U
124-48-1	Dibromochloromethane	ND	5.0	1.5	U
79-00-5	1,1,2-Trichloroethane	ND	15	5.0	U
127-18-4	Tetrachloroethene	ND	5.0	1.8	U
108-90-7	Chlorobenzene	ND	25	7.0	U
75-69-4	Trichlorofluoromethane	ND	25	7.0	U
107-06-2	1,2-Dichloroethane	ND	5.0	1.3	U
71-55-6	1,1,1-Trichloroethane	ND	25	7.0	U
75-27-4	Bromodichloromethane	ND	5.0	1.9	U
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.6	U
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.4	U
75-25-2	Bromoform	ND	20	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	ND ^{uJ}	5.0	1.7	U
71-43-2	Benzene	ND	5.0	1.6	U
108-88-3	Toluene	ND	25	7.0	U
100-41-4	Ethylbenzene	ND	25	7.0	U
74-87-3	Chloromethane	ND	25	7.0	U
74-83-9	Bromomethane	ND	25	7.0	U
75-01-4	Vinyl chloride	100 ^J	10	0.71	
75-00-3	Chloroethane	ND	25	7.0	U
75-35-4	1,1-Dichloroethene	ND	5.0	1.7	U
156-60-5	trans-1,2-Dichloroethene	ND	25	7.0	U
79-01-6	Trichloroethene	730 ^J	5.0	1.8	

mw 12/3/17



Form 1 VOA

3

NW

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Lab ID : L1740446-03D
Client ID : MW-2A
Sample Location : WHITEWALL, NY
Sample Matrix : WATER
Analytical Method : 1,8260C
Lab File ID : V05171108P14
Sample Amount : 1 ml
Level : LOW
Extract Volume (MeOH) : N/A

Lab Number : L1740446
Project Number : 06.6448
Date Collected : 11/02/17 09:35
Date Received : 11/03/17
Date Analyzed : 11/09/17 02:19
Dilution Factor : 10
Analyst : PD
Instrument ID : VOA105
GC Column : RTX-502.2
%Solids : N/A
Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	25	7.0	U
541-73-1	1,3-Dichlorobenzene	ND	25	7.0	U
106-46-7	1,4-Dichlorobenzene	ND	25	7.0	U
1634-04-4	Methyl tert butyl ether	ND	25	7.0	U
179601-23-1	p/m-Xylene	ND	25	7.0	U
95-47-6	o-Xylene	ND	25	7.0	U
156-59-2	cis-1,2-Dichloroethene	950 J	25	7.0	
100-42-5	Styrene	ND	25	7.0	U
75-71-8	Dichlorodifluoromethane	ND	50	10.	U
67-64-1	Acetone	ND	50	15.	U
75-15-0	Carbon disulfide	ND	50	10.	U
78-93-3	2-Butanone	ND	50	19.	U
108-10-1	4-Methyl-2-pentanone	ND	50	10.	U
591-78-6	2-Hexanone	ND	50	10.	U
74-97-5	Bromochloromethane	ND	25	7.0	U
106-93-4	1,2-Dibromoethane	ND	20	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	25	7.0	U
98-82-8	Isopropylbenzene	ND	25	7.0	U
87-61-6	1,2,3-Trichlorobenzene	ND	25	7.0	U
120-82-1	1,2,4-Trichlorobenzene	ND	25	7.0	U
79-20-9	Methyl Acetate	ND	20	2.3	U
110-82-7	Cyclohexane	ND	100	2.7	U
123-91-1	1,4-Dioxane	ND	2500	610	U
76-13-1	Freon-113	ND	25	7.0	U
108-87-2	Methyl cyclohexane	ND	100	4.0	U

NW 12/13/17



Form 1
VOA

4

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-04D
 Client ID : MW-3A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P12
 Sample Amount : 2 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448 03
 Date Collected : 11/02/17 11:55
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 01:29
 Dilution Factor : 5
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

NW

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	12	3.5	U
75-34-3	1,1-Dichloroethane	ND	12	3.5	U
67-66-3	Chloroform	ND	12	3.5	U
56-23-5	Carbon tetrachloride	ND	2.5	0.67	U
78-87-5	1,2-Dichloropropane	ND uJ	5.0	0.68	J
124-48-1	Dibromochloromethane	ND	2.5	0.74	U
79-00-5	1,1,2-Trichloroethane	ND	7.5	2.5	U
127-18-4	Tetrachloroethene	ND	2.5	0.90	U
108-90-7	Chlorobenzene	ND	12	3.5	U
75-69-4	Trichlorofluoromethane	ND	12	3.5	U
107-06-2	1,2-Dichloroethane	ND	2.5	0.66	U
71-55-6	1,1,1-Trichloroethane	ND	12	3.5	U
75-27-4	Bromodichloromethane	ND	2.5	0.96	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.82	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.72	U
75-25-2	Bromoform	ND	10	3.2	U
79-34-5	1,1,2,2-Tetrachloroethane	ND uJ	2.5	0.84	J
71-43-2	Benzene	ND	2.5	0.80	U
108-88-3	Toluene	ND	12	3.5	U
100-41-4	Ethylbenzene	ND	12	3.5	U
74-87-3	Chloromethane	ND	12	3.5	U
74-83-9	Bromomethane	ND	12	3.5	U
75-01-4	Vinyl chloride	520	5.0	0.36	
75-00-3	Chloroethane	ND	12	3.5	U
75-35-4	1,1-Dichloroethene	1.7	2.5	0.84	J
156-60-5	trans-1,2-Dichloroethene	ND	12	3.5	U
79-01-6	Trichloroethene	ND	2.5	0.88	U



NW121317

Form 1 VOA

4

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-04D
 Client ID : MW-3A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P12
 Sample Amount : 2 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448 03
 Date Collected : 11/02/17 11:55
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 01:29
 Dilution Factor : 5
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

MW

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	12	3.5	U
541-73-1	1,3-Dichlorobenzene	ND	12	3.5	U
106-46-7	1,4-Dichlorobenzene	ND	12	3.5	U
1634-04-4	Methyl tert butyl ether	ND	12	3.5	U
179601-23-1	p/m-Xylene	ND	12	3.5	U
95-47-6	o-Xylene	ND	12	3.5	U
156-59-2	cis-1,2-Dichloroethene	1500 1700 62	12	18 3.5	-E
100-42-5	Styrene	ND	12	3.5	U
75-71-8	Dichlorodifluoromethane	ND	25	5.0	U
67-64-1	Acetone	ND	25	7.3	U
75-15-0	Carbon disulfide	ND	25	5.0	U
78-93-3	2-Butanone	ND	25	9.7	U
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	U
591-78-6	2-Hexanone	ND	25	5.0	U
74-97-5	Bromochloromethane	ND	12	3.5	U
106-93-4	1,2-Dibromoethane	ND	10	3.2	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	3.5	U
98-82-8	Isopropylbenzene	ND	12	3.5	U
87-61-6	1,2,3-Trichlorobenzene	ND	12	3.5	U
120-82-1	1,2,4-Trichlorobenzene	ND	12	3.5	U
79-20-9	Methyl Acetate	ND	10	1.2	U
110-82-7	Cyclohexane	ND	50	1.4	U
123-91-1	1,4-Dioxane	ND	1200	300	U
76-13-1	Freon-113	ND	12	3.5	U
108-87-2	Methyl cyclohexane	ND	50	2.0	U

11/21/17



Form 1
VOA

4

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-04D2
 Client ID : MW-3A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171109A12
 Sample Amount : 0.4 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448 03
 Date Collected : 11/02/17 11:55
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 14:24
 Dilution Factor : 25
 Analyst : AD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

(MW)

use original results

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-59-2	cis-1,2-Dichloroethene	1500	62	18.	

nw121317



Form 1
VOA

5

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-05D
 Client ID : BMW-15A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P10
 Sample Amount : 4 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448 03 (NW)
 Date Collected : 11/02/17 10:50
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 00:39
 Dilution Factor : 2.5
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	6.2	1.8	U
75-34-3	1,1-Dichloroethane	ND	6.2	1.8	U
67-66-3	Chloroform	ND	6.2	1.8	U
56-23-5	Carbon tetrachloride	ND	1.2	0.34	U
78-87-5	1,2-Dichloropropane	ND NJ	2.5	0.34	J
124-48-1	Dibromochloromethane	ND	1.2	0.37	U
79-00-5	1,1,2-Trichloroethane	ND	3.8	1.2	U
127-18-4	Tetrachloroethene	ND	1.2	0.45	U
108-90-7	Chlorobenzene	ND	6.2	1.8	U
75-69-4	Trichlorofluoromethane	ND	6.2	1.8	U
107-06-2	1,2-Dichloroethane	ND	1.2	0.33	U
71-55-6	1,1,1-Trichloroethane	ND	6.2	1.8	U
75-27-4	Bromodichloromethane	ND	1.2	0.48	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.41	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.36	U
75-25-2	Bromoform	ND	5.0	1.6	U
79-34-5	1,1,2,2-Tetrachloroethane	ND NJ	1.2	0.42	J
71-43-2	Benzene	ND	1.2	0.40	U
108-88-3	Toluene	ND	6.2	1.8	U
100-41-4	Ethylbenzene	ND	6.2	1.8	U
74-87-3	Chloromethane	ND	6.2	1.8	U
74-83-9	Bromomethane	ND	6.2	1.8	U
75-01-4	Vinyl chloride	160	2.5	0.18	
75-00-3	Chloroethane	ND	6.2	1.8	U
75-35-4	1,1-Dichloroethene	1.1	1.2	0.42	J
156-60-5	trans-1,2-Dichloroethene	16	6.2	1.8	
79-01-6	Trichloroethene	2.3	1.2	0.44	

nw 12/13/17



Form 1
VOA

5

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-05D
 Client ID : BMW-15A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P10
 Sample Amount : 4 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448 03 NW
 Date Collected : 11/02/17 10:50
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 00:39
 Dilution Factor : 2.5
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	6.2	1.8	U
541-73-1	1,3-Dichlorobenzene	ND	6.2	1.8	U
106-46-7	1,4-Dichlorobenzene	ND	6.2	1.8	U
1634-04-4	Methyl tert butyl ether	ND	6.2	1.8	U
179601-23-1	p/m-Xylene	ND	6.2	1.8	U
95-47-6	o-Xylene	ND	6.2	1.8	U
156-59-2	cis-1,2-Dichloroethene	340	6.2	1.8	
100-42-5	Styrene	ND	6.2	1.8	U
75-71-8	Dichlorodifluoromethane	ND	12	2.5	U
67-64-1	Acetone	ND	12	3.6	U
75-15-0	Carbon disulfide	ND	12	2.5	U
78-93-3	2-Butanone	ND	12	4.8	U
108-10-1	4-Methyl-2-pentanone	ND	12	2.5	U
591-78-6	2-Hexanone	ND	12	2.5	U
74-97-5	Bromochloromethane	ND	6.2	1.8	U
106-93-4	1,2-Dibromoethane	ND	5.0	1.6	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.2	1.8	U
98-82-8	Isopropylbenzene	ND	6.2	1.8	U
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	1.8	U
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	1.8	U
79-20-9	Methyl Acetate	ND	5.0	0.58	U
110-82-7	Cyclohexane	ND	25	0.68	U
123-91-1	1,4-Dioxane	ND	620	150	U
76-13-1	Freon-113	ND	6.2	1.8	U
108-87-2	Methyl cyclohexane	ND	25	0.99	U

NW121317



Form 1
VOA

6

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-06D
 Client ID : BMW-14A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P13
 Sample Amount : 1 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448 ⁰³ NW
 Date Collected : 11/02/17 13:15
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 01:54
 Dilution Factor : 10
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	25	7.0	U
75-34-3	1,1-Dichloroethane	ND	25	7.0	U
67-66-3	Chloroform	ND	25	7.0	U
56-23-5	Carbon tetrachloride	ND	5.0	1.3	U
78-87-5	1,2-Dichloropropane	ND uJ	10	1.4	J
124-48-1	Dibromochloromethane	ND	5.0	1.5	U
79-00-5	1,1,2-Trichloroethane	ND	15	5.0	U
127-18-4	Tetrachloroethene	ND	5.0	1.8	U
108-90-7	Chlorobenzene	ND	25	7.0	U
75-69-4	Trichlorofluoromethane	ND	25	7.0	U
107-06-2	1,2-Dichloroethane	ND	5.0	1.3	U
71-55-6	1,1,1-Trichloroethane	ND	25	7.0	U
75-27-4	Bromodichloromethane	ND	5.0	1.9	U
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.6	U
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.4	U
75-25-2	Bromoform	ND	20	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	ND uJ	5.0	1.7	J
71-43-2	Benzene	ND	5.0	1.6	U
108-88-3	Toluene	ND	25	7.0	U
100-41-4	Ethylbenzene	ND	25	7.0	U
74-87-3	Chloromethane	ND	25	7.0	U
74-83-9	Bromomethane	ND	25	7.0	U
75-01-4	Vinyl chloride	34	10	0.71	
75-00-3	Chloroethane	ND	25	7.0	U
75-35-4	1,1-Dichloroethene	ND	5.0	1.7	U
156-60-5	trans-1,2-Dichloroethene	7.0	25	7.0	J
79-01-6	Trichloroethene	ND	5.0	1.8	U



11/21/17

Form 1
VOA

6
NW

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-06D
 Client ID : BMW-14A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P13
 Sample Amount : 1 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448 03
 Date Collected : 11/02/17 13:15
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 01:54
 Dilution Factor : 10
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	25	7.0	U
541-73-1	1,3-Dichlorobenzene	ND	25	7.0	U
106-46-7	1,4-Dichlorobenzene	ND	25	7.0	U
1634-04-4	Methyl tert butyl ether	ND	25	7.0	U
179601-23-1	p/m-Xylene	ND	25	7.0	U
95-47-6	o-Xylene	ND	25	7.0	U
156-59-2	cis-1,2-Dichloroethene	820	25	7.0	
100-42-5	Styrene	ND	25	7.0	U
75-71-8	Dichlorodifluoromethane	ND	50	10.	U
67-64-1	Acetone	ND	50	15.	U
75-15-0	Carbon disulfide	ND	50	10.	U
78-93-3	2-Butanone	ND	50	19.	U
108-10-1	4-Methyl-2-pentanone	ND	50	10.	U
591-78-6	2-Hexanone	ND	50	10.	U
74-97-5	Bromochloromethane	ND	25	7.0	U
106-93-4	1,2-Dibromoethane	ND	20	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	25	7.0	U
98-82-8	Isopropylbenzene	ND	25	7.0	U
87-61-6	1,2,3-Trichlorobenzene	ND	25	7.0	U
120-82-1	1,2,4-Trichlorobenzene	ND	25	7.0	U
79-20-9	Methyl Acetate	ND	20	2.3	U
110-82-7	Cyclohexane	ND	100	2.7	U
123-91-1	1,4-Dioxane	ND	2500	610	U
76-13-1	Freon-113	ND	25	7.0	U
108-87-2	Methyl cyclohexane	ND	100	4.0	U

11/21/17



Form 1
VOA

7

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-07D
 Client ID : FD01-20171103
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P11
 Sample Amount : 4 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448 03 (NW)
 Date Collected : 11/02/17 00:00
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 01:04
 Dilution Factor : 2.5
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	6.2	1.8	U
75-34-3	1,1-Dichloroethane	ND	6.2	1.8	U
67-66-3	Chloroform	ND	6.2	1.8	U
56-23-5	Carbon tetrachloride	ND	1.2	0.34	U
78-87-5	1,2-Dichloropropane	ND UJ	2.5	0.34	U
124-48-1	Dibromochloromethane	ND	1.2	0.37	U
79-00-5	1,1,2-Trichloroethane	ND	3.8	1.2	U
127-18-4	Tetrachloroethene	ND	1.2	0.45	U
108-90-7	Chlorobenzene	ND	6.2	1.8	U
75-69-4	Trichlorofluoromethane	ND	6.2	1.8	U
107-06-2	1,2-Dichloroethane	ND	1.2	0.33	U
71-55-6	1,1,1-Trichloroethane	ND	6.2	1.8	U
75-27-4	Bromodichloromethane	ND	1.2	0.48	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.41	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.36	U
75-25-2	Bromoform	ND	5.0	1.6	U
79-34-5	1,1,2,2-Tetrachloroethane	ND UJ	1.2	0.42	U
71-43-2	Benzene	ND	1.2	0.40	U
108-88-3	Toluene	ND	6.2	1.8	U
100-41-4	Ethylbenzene	ND	6.2	1.8	U
74-87-3	Chloromethane	ND	6.2	1.8	U
74-83-9	Bromomethane	ND	6.2	1.8	U
75-01-4	Vinyl chloride	180	2.5	0.18	
75-00-3	Chloroethane	ND	6.2	1.8	U
75-35-4	1,1-Dichloroethene	1.2	1.2	0.42	
156-60-5	trans-1,2-Dichloroethene	17	6.2	1.8	
79-01-6	Trichloroethene	2.1	1.2	0.44	



11/21/17

Form 1
VOA

7

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-07D
 Client ID : FD01-20171103
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P11
 Sample Amount : 4 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448 03
 Date Collected : 11/02/17 00:00
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 01:04
 Dilution Factor : 2.5
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

MM

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	6.2	1.8	U
541-73-1	1,3-Dichlorobenzene	ND	6.2	1.8	U
106-46-7	1,4-Dichlorobenzene	ND	6.2	1.8	U
1634-04-4	Methyl tert butyl ether	ND	6.2	1.8	U
179601-23-1	p/m-Xylene	ND	6.2	1.8	U
95-47-6	o-Xylene	ND	6.2	1.8	U
156-59-2	cis-1,2-Dichloroethene	390	6.2	1.8	
100-42-5	Styrene	ND	6.2	1.8	U
75-71-8	Dichlorodifluoromethane	ND	12	2.5	U
67-64-1	Acetone	ND	12	3.6	U
75-15-0	Carbon disulfide	ND	12	2.5	U
78-93-3	2-Butanone	ND	12	4.8	U
108-10-1	4-Methyl-2-pentanone	ND	12	2.5	U
591-78-6	2-Hexanone	ND	12	2.5	U
74-97-5	Bromochloromethane	ND	6.2	1.8	U
106-93-4	1,2-Dibromoethane	ND	5.0	1.6	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.2	1.8	U
98-82-8	Isopropylbenzene	ND	6.2	1.8	U
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	1.8	U
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	1.8	U
79-20-9	Methyl Acetate	ND	5.0	0.58	U
110-82-7	Cyclohexane	ND	25	0.68	U
123-91-1	1,4-Dioxane	ND	620	150	U
76-13-1	Freon-113	ND	6.2	1.8	U
108-87-2	Methyl cyclohexane	ND	25	0.99	U

mw121317



Form 1
VOA

8

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-08
 Client ID : BMW-18A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P09
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448 03 (MW)
 Date Collected : 11/02/17 14:20
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 00:14
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND uJ	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND uJ	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	0.16	1.0	0.07	J
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U



Form 1
VOA

8

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-08
 Client ID : BMW-18A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P09
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448 03 MW
 Date Collected : 11/02/17 14:20
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 00:14
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	1.4	2.5	0.70	J
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



mw121317

Form 1
VOA

9

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-09
 Client ID : TRIP BLANK
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P06
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448 03 NW
 Date Collected : 11/02/17 00:00
 Date Received : 11/03/17
 Date Analyzed : 11/08/17 22:58
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND <i>UJ</i>	1.0	0.14	<i>U</i>
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND <i>UJ</i>	0.50	0.17	<i>U</i>
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U



11/21/17

Form 1
VOA

9

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-09
 Client ID : TRIP BLANK
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P06
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448 03 (NW)
 Date Collected : 11/02/17 00:00
 Date Received : 11/03/17
 Date Analyzed : 11/08/17 22:58
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

rwizh317



**DATA USABILITY SUMMARY REPORT
OLD CHAMPLAIN MILL, WHITEHALL, NEW YORK**

Client: C.T. Male Associates, Latham, New York
SDG: L1740596
Laboratory: Alpha Analytical, Westborough, Massachusetts
Site: Old Champlain Mill, Whitehall, New York
Date: December 13, 2017

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	BMW-13A	L1740596-01	Water
2	MW-10A	L1740596-02	Water
3	BMW-19A	L1740596-03	Water
4	MW-5A	L1740596-04	Water
5	BMW-16A	L1740596-05	Water
6	EB01-20171106	L1740596-06	Water
7	TRIP BLANK	L1740596-07	Water

A Data Usability Summary Review was performed on the analytical data for five water samples, one aqueous equipment blank sample, and one aqueous trip blank sample collected on November 6, 2017 by CT Male at the Old Champlain Mill site in Whitehall, New York. The samples were analyzed under Environmental Protection Agency (USEPA) "Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions".

Specific method references are as follows:

Analysis
VOC

Method References
USEPA SW-846 Method 8260C

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-24, Revision 4, September 2014: Validating Volatile Organic Compounds by SW-846 Method 8260B & 8260C;
- and the reviewer's professional judgment.

The following items/criteria were reviewed:

Organics

- Data Completeness
- Holding times and sample preservation
- Gas Chromatography (GC)/Mass Spectrometry (MS) tuning

- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Date Quality Assessment

There were no rejections of data.

Overall the data are acceptable for the intended purposes as qualified for the following deficiencies.

- Three compounds were qualified as estimated in all samples due to high continuing calibration %D values.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedences of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable percent relative standard deviation (%RSD) and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded various percent difference (%D) and/or RRF values <0.05 (<0.01 for poor performers) in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
11/10/17	Bromomethane	44.4%	J/UJ	All Samples
	Styrene	54.9%		
	Bromoform	45.1%		

Method Blank

- The method blank samples were free of contamination.

Field Blank

- The field QC samples exhibited the following contamination.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
EB01-20171106	None - ND	-	-	-
TRIP BLANK	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples (LCS)

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

LCS ID	Compound	%R	Qualifier	Affected Samples
WG1061830-3	Styrene	45%	None	See CCAL

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 12/14/17
Nancy Weaver
Senior Chemist

Data Qualifiers

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was analyzed for, but was not detected above the sample reporting limit.
- R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-01D
 Client ID : BMW-13A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A14
 Sample Amount : 0.2 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 10:45
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 14:18
 Dilution Factor : 50
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	120	35.	U
75-34-3	1,1-Dichloroethane	ND	120	35.	U
67-66-3	Chloroform	ND	120	35.	U
56-23-5	Carbon tetrachloride	ND	25	6.7	U
78-87-5	1,2-Dichloropropane	ND	50	6.8	U
124-48-1	Dibromochloromethane	ND	25	7.4	U
79-00-5	1,1,2-Trichloroethane	ND	75	25.	U
127-18-4	Tetrachloroethene	ND	25	9.0	U
108-90-7	Chlorobenzene	ND	120	35.	U
75-69-4	Trichlorofluoromethane	ND	120	35.	U
107-06-2	1,2-Dichloroethane	ND	25	6.6	U
71-55-6	1,1,1-Trichloroethane	ND	120	35.	U
75-27-4	Bromodichloromethane	ND	25	9.6	U
10061-02-6	trans-1,3-Dichloropropene	ND	25	8.2	U
10061-01-5	cis-1,3-Dichloropropene	ND	25	7.2	U
75-25-2	Bromoform	ND uJ	100	32.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	8.4	U
71-43-2	Benzene	ND	25	8.0	U
108-88-3	Toluene	ND	120	35.	U
100-41-4	Ethylbenzene	ND	120	35.	U
74-87-3	Chloromethane	ND	120	35.	U
74-83-9	Bromomethane	ND uJ	120	35.	U
75-01-4	Vinyl chloride	640	50	3.6	
75-00-3	Chloroethane	ND	120	35.	U
75-35-4	1,1-Dichloroethene	ND	25	8.4	U
156-60-5	trans-1,2-Dichloroethene	ND	120	35.	U
79-01-6	Trichloroethene	ND	25	8.8	U

NW 12/13/17



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-01D
 Client ID : BMW-13A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A14
 Sample Amount : 0.2 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 10:45
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 14:18
 Dilution Factor : 50
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	120	35.	U
541-73-1	1,3-Dichlorobenzene	ND	120	35.	U
106-46-7	1,4-Dichlorobenzene	ND	120	35.	U
1634-04-4	Methyl tert butyl ether	ND	120	35.	U
179601-23-1	p/m-Xylene	ND	120	35.	U
95-47-6	o-Xylene	ND	120	35.	U
156-59-2	cis-1,2-Dichloroethene	4300	120	35.	
100-42-5	Styrene	ND <i>4J</i>	120	35.	<i>✓</i>
75-71-8	Dichlorodifluoromethane	ND	250	50.	U
67-64-1	Acetone	ND	250	73.	U
75-15-0	Carbon disulfide	ND	250	50.	U
78-93-3	2-Butanone	ND	250	97.	U
108-10-1	4-Methyl-2-pentanone	ND	250	50.	U
591-78-6	2-Hexanone	ND	250	50.	U
74-97-5	Bromochloromethane	ND	120	35.	U
106-93-4	1,2-Dibromoethane	ND	100	32.	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	120	35.	U
98-82-8	Isopropylbenzene	ND	120	35.	U
87-61-6	1,2,3-Trichlorobenzene	ND	120	35.	U
120-82-1	1,2,4-Trichlorobenzene	ND	120	35.	U
79-20-9	Methyl Acetate	ND	100	12.	U
110-82-7	Cyclohexane	ND	500	14.	U
123-91-1	1,4-Dioxane	ND	12000	3000	U
76-13-1	Freon-113	ND	120	35.	U
108-87-2	Methyl cyclohexane	ND	500	20.	U

NW121317



Form 1 VOA

2

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-02
 Client ID : MW-10A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A16
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 09:30
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 15:13
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND <i>uJ</i>	2.0	0.65	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND <i>uJ</i>	2.5	0.70	U
75-01-4	Vinyl chloride	10	1.0	0.07	
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U

mw121317



Form 1 VOA

2

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-02
 Client ID : MW-10A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A16
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 09:30
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 15:13
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	44	2.5	0.70	
100-42-5	Styrene	ND <i>WJ</i>	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

11/21/17



Form 1 VOA

3

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-03D
 Client ID : BMW-19A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A15
 Sample Amount : 0.5 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 08:50
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 14:45
 Dilution Factor : 20
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	50	14.	U
75-34-3	1,1-Dichloroethane	ND	50	14.	U
67-66-3	Chloroform	ND	50	14.	U
56-23-5	Carbon tetrachloride	ND	10	2.7	U
78-87-5	1,2-Dichloropropane	ND	20	2.7	U
124-48-1	Dibromochloromethane	ND	10	3.0	U
79-00-5	1,1,2-Trichloroethane	ND	30	10.	U
127-18-4	Tetrachloroethene	ND	10	3.6	U
108-90-7	Chlorobenzene	ND	50	14.	U
75-69-4	Trichlorofluoromethane	ND	50	14.	U
107-06-2	1,2-Dichloroethane	ND	10	2.6	U
71-55-6	1,1,1-Trichloroethane	ND	50	14.	U
75-27-4	Bromodichloromethane	ND	10	3.8	U
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.3	U
10061-01-5	cis-1,3-Dichloropropene	ND	10	2.9	U
75-25-2	Bromoform	ND <i>uj</i>	40	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	3.3	U
71-43-2	Benzene	ND	10	3.2	U
108-88-3	Toluene	ND	50	14.	U
100-41-4	Ethylbenzene	ND	50	14.	U
74-87-3	Chloromethane	ND	50	14.	U
74-83-9	Bromomethane	ND <i>uj</i>	50	14.	U
75-01-4	Vinyl chloride	460	20	1.4	
75-00-3	Chloroethane	ND	50	14.	U
75-35-4	1,1-Dichloroethene	ND	10	3.4	U
156-60-5	trans-1,2-Dichloroethene	ND	50	14.	U
79-01-6	Trichloroethene	ND	10	3.5	U

m121317



Form 1
VOA

3

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-03D
 Client ID : BMW-19A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A15
 Sample Amount : 0.5 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 08:50
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 14:45
 Dilution Factor : 20
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	50	14.	U
541-73-1	1,3-Dichlorobenzene	ND	50	14.	U
106-46-7	1,4-Dichlorobenzene	ND	50	14.	U
1634-04-4	Methyl tert butyl ether	ND	50	14.	U
179601-23-1	p/m-Xylene	ND	50	14.	U
95-47-6	o-Xylene	ND	50	14.	U
156-59-2	cis-1,2-Dichloroethene	1500	50	14.	
100-42-5	Styrene	ND <i>uj</i>	50	14.	<i>U</i>
75-71-8	Dichlorodifluoromethane	ND	100	20.	U
67-64-1	Acetone	ND	100	29.	U
75-15-0	Carbon disulfide	ND	100	20.	U
78-93-3	2-Butanone	ND	100	39.	U
108-10-1	4-Methyl-2-pentanone	ND	100	20.	U
591-78-6	2-Hexanone	ND	100	20.	U
74-97-5	Bromochloromethane	ND	50	14.	U
106-93-4	1,2-Dibromoethane	ND	40	13.	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	14.	U
98-82-8	Isopropylbenzene	ND	50	14.	U
87-61-6	1,2,3-Trichlorobenzene	ND	50	14.	U
120-82-1	1,2,4-Trichlorobenzene	ND	50	14.	U
79-20-9	Methyl Acetate	ND	40	4.7	U
110-82-7	Cyclohexane	ND	200	5.4	U
123-91-1	1,4-Dioxane	ND	5000	1200	U
76-13-1	Freon-113	ND	50	14.	U
108-87-2	Methyl cyclohexane	ND	200	7.9	U

W21317



Form 1
VOA

4

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-04
 Client ID : MW-5A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A17
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 12:10
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 15:41
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND UJ	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND UJ	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	0.61	0.50	0.18	

11/21/17



Form 1
VOA

4

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-04
 Client ID : MW-5A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A17
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 12:10
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 15:41
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND <i>WJ</i>	2.5	0.70	<i>U</i>
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

nw121317



Form 1
VOA

5

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-05
 Client ID : BMW-16A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A18
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 13:15
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 16:08
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND <i>uJ</i>	2.0	0.65	<i>uJ</i>
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND <i>uJ</i>	2.5	0.70	<i>uJ</i>
75-01-4	Vinyl chloride	1.3	1.0	0.07	
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U

uJ 12/13/17



Form 1
VOA

5

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-05
 Client ID : BMW-16A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A18
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 13:15
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 16:08
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	4.4	2.5	0.70	
100-42-5	Styrene	ND <i>WJ</i>	2.5	0.70	<i>U</i>
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

WJ 12/13/17



Form 1
VOA

6

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-06
 Client ID : EB01-20171106
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A19
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 11:15
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 16:36
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND <i>WJ</i>	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND <i>WJ</i>	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U

revised



Form 1 VOA

6

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Lab ID : L1740596-06
Client ID : EB01-20171106
Sample Location : WHITEHALL, NY
Sample Matrix : WATER
Analytical Method : 1,8260C
Lab File ID : V22171110A19
Sample Amount : 10 ml
Level : LOW
Extract Volume (MeOH) : N/A

Lab Number : L1740596
Project Number : 06.6448
Date Collected : 11/06/17 11:15
Date Received : 11/06/17
Date Analyzed : 11/10/17 16:36
Dilution Factor : 1
Analyst : MKS
Instrument ID : VOA122
GC Column : RTX-502.2
%Solids : N/A
Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND <i>WJ</i>	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

w/12/13/17



Form 1 VOA

7

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-07
 Client ID : TRIP BLANK
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A20
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 00:00
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 17:04
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND UJ	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND UJ	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U

w121317



Form 1
VOA

7

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-07
 Client ID : TRIP BLANK
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A20
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

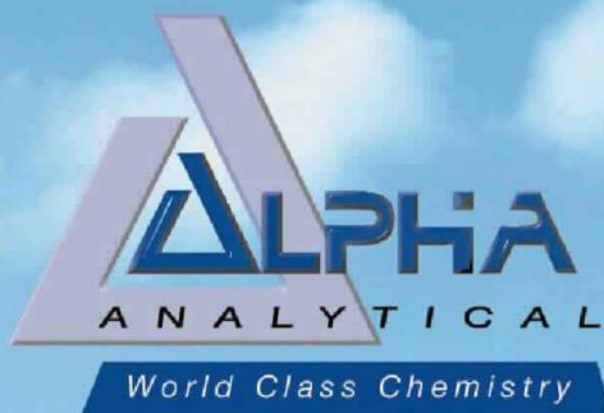
Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 00:00
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 17:04
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND <i>u/s</i>	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

11/12/13/17



APPENDIX E
LABORATORY REPORTS



www.alphalab.com



Alpha Analytical

Laboratory Code: 11148

SDG Number: L1740446

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Table of Contents

New York ASP Category B Data Deliverable Package.....	1
Table of Contents	2
Sample ID Cross Reference	4
SDG Narrative	5
Data Qualifier Definitions	7
Instrument Information	9
Volatile Organics Instruments	9
Volatile Organics in Air Instruments	9
Semivolatile Organics Instruments - Westborough.....	10
Semivolatile Organic Instruments - Mansfield.....	11
Sample Log-in Sheet	12
Lims COC (LN01)	13
External Chain of Custody	15
Organics Analysis	17
GCMS 8260 Analysis	18
Volatiles QC Summary	19
Form 2 - Organics	20
Form 3 - Organics	21
Form 4 - Organics	28
Form 5 - Organics	30
Form 8 - Organics	33
MDL Study - Volatile Organics 8260	35
Volatiles Sample Data	44
Form 1 - Organics	45
TRIP BLANK (L1740446-09) Analyzed: 11/08/17 22:58	68
BMW-17A (L1740446-01) Analyzed: 11/08/17 23:23	77
MW-1A (L1740446-02) Analyzed: 11/08/17 23:49	88
BMW-18A (L1740446-08) Analyzed: 11/09/17 00:14	98
BMW-15A (L1740446-05D) Analyzed: 11/09/17 00:39	106
FD01-20171103 (L1740446-07D) Analyzed: 11/09/17 01:04	116
MW-3A (L1740446-04D) Analyzed: 11/09/17 01:29	127
BMW-14A (L1740446-06D) Analyzed: 11/09/17 01:54	136
MW-2A (L1740446-03D) Analyzed: 11/09/17 02:19	145
MW-3A (L1740446-04D2) Analyzed: 11/09/17 14:24	154
Volatile Standards Data	160
Initial Calibration	161
Form 6 - Organics	162
ICAL for VOA105 on 10/26/17 ICAL14135	165
Initial Calibration Summary - Cal Date: 10/26/17 00:00	165
BFB Injected on: 10/26/17 11:53	169
STD11 Injected on: 10/26/17 13:02	170
STD1 Injected on: 10/26/17 13:27	173
STD2 Injected on: 10/26/17 14:43	180
STD3 Injected on: 10/26/17 15:08	186
STD4 Injected on: 10/26/17 15:33	191
STD6 Injected on: 10/26/17 15:58	196
STD8 Injected on: 10/26/17 16:24	201
STD10 Injected on: 10/26/17 16:49	206
ICV Summary Form Injected on: 10/26/17 19:19	211
ICV Quant Report Injected on: 10/26/17 19:19	214

Table of Contents

Continuing Calibration	222
Form 7 - Organics	223
CC Summary - VOA105 Run: 11/08/17 20:53	229
CC Quant - VOA105 Run: 11/08/17 20:53	232
CC Summary - VOA105 Run: 11/09/17 08:09	239
CC Quant - VOA105 Run: 11/09/17 08:09	242
bfb tune - Inst. VOA105 11/08/17 20:34	252
bfb tune - Inst. VOA105 11/09/17 07:25	253
Volatiles Raw QC Data	254
Laboratory Method BI (WG1061312-5) Analyzed: 11/08/17 22:33	255
Laboratory Method BI (WG1061312-12) Analyzed: 11/09/17 09:24	263
Laboratory Control S (WG1061312-3) Analyzed: 11/08/17 20:53	271
Laboratory Control S (WG1061312-10) Analyzed: 11/09/17 08:09	326
LCS Duplicate (WG1061312-4) Analyzed: 11/08/17 21:18	383
LCS Duplicate (WG1061312-11) Analyzed: 11/09/17 08:34	438
Matrix Spike (WG1061312-6) Analyzed: 11/09/17 06:30	495
Matrix Spike Duplica (WG1061312-7) Analyzed: 11/09/17 06:55	552
Volatiles Calculations	609
QC Batch WG1061312	610
ICAL Sequence for VOA105 on 26-OCT-2017 00:00 ICAL14135	611
Sequence Log	613

Project Name: OLD CHAMPLAIN MILL
Project Number: 06.6448

Lab Number: L1740446
Report Date: 11/09/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1740446-01	BMW-17A	WATER	WHITEWALL, NY	11/02/17 14:30	11/03/17
L1740446-02	MW-1A	WATER	WHITEWALL, NY	11/02/17 08:30	11/03/17
L1740446-03	MW-2A	WATER	WHITEWALL, NY	11/02/17 09:35	11/03/17
L1740446-04	MW-3A	WATER	WHITEWALL, NY	11/02/17 11:55	11/03/17
L1740446-05	BMW-15A	WATER	WHITEWALL, NY	11/02/17 10:50	11/03/17
L1740446-06	BMW-14A	WATER	WHITEWALL, NY	11/02/17 13:15	11/03/17
L1740446-07	FD01-20171103	WATER	WHITEWALL, NY	11/02/17 00:00	11/03/17
L1740446-08	BMW-18A	WATER	WHITEWALL, NY	11/02/17 14:20	11/03/17
L1740446-09	TRIP BLANK	WATER	WHITEWALL, NY	11/02/17 00:00	11/03/17

Project Name: OLD CHAMPLAIN MILL
Project Number: 06.6448

Lab Number: L1740446
Report Date: 11/09/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: OLD CHAMPLAIN MILL
Project Number: 06.6448

Lab Number: L1740446
Report Date: 11/09/17

Case Narrative (continued)

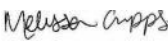
Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

The WG1061312-6/-7 MS/MSD recoveries, performed on L1740446-03, are outside the acceptance criteria for trichloroethene (60%/40%) and cis-1,2-dichloroethene (50%/50%). The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Melissa Cripps

Report Date: 11/09/17

Title: Technical Director/Representative



GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: OLD CHAMPLAIN MILL
Project Number: 06.6448

Lab Number: L1740446
Report Date: 11/09/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.



Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 5975MSD (or equivalent)	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.52 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Herbicides

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-1701	df: 0.25
Column B: Restek RTX-5	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	

EPH

Instrument: Agilent 6890N w/FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (ECD):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm



Sample Delivery Group Summary

Alpha Job Number : L1740446

Received : 03-NOV-2017

Account Name : C.T. Male Associates

Reviewer : John Knoud

Project Number : 06.6448

Project Name : OLD CHAMPLAIN MILL

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Present/Intact/N/A	Ice	5.1	

Condition Information

All samples on COC received? **YES**

Extra samples received? **NO**

Are there any sample container discrepancies? **NO**

Are there any discrepancies between sample labels & COC? **NO**

Are samples in appropriate containers for requested analysis? **YES**

Are samples properly preserved for requested analysis? **YES**

Are samples within holding time for requested analysis? **YES**

All sampling equipment returned? **NA**

Volatile Organics/VPH

Reagent Water Vials Frozen by Client? **NO**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 09 2017, 06:59 pm

Login Number: L1740446

Account: CTMALE C.T. Male Associates Project: 06.6448

Sample #	Client ID	Received: Mat PR	03NOV17 Collected	Due Date: 10NOV17	Container
L1740446-01	BMW-17A	1	S0 02NOV17 14:30	3-Vial-B	
8260: Report List BUilt EPA TCL SOM01.2) ASP-B Package Due Date: 11/10/17					
ASP-B,NYTCL-8260-R2					
L1740446-02	MW-1A	1	S0 02NOV17 08:30	3-Vial-B	
8260: Report List BUilt EPA TCL SOM01.2) Package Due Date: 11/10/17					
NYTCL-8260-R2					
L1740446-03	MW-2A	1	S0 02NOV17 09:35	9-Vial-B	
L1740446-03 MS L1740446-03 MSD 8260: Report List BUilt EPA TCL SOM01.2) Package Due Date: 11/10/17					
MS/MSD,NYTCL-8260-R2					
L1740446-04	MW-3A	1	S0 02NOV17 11:55	3-Vial-B	
8260: Report List BUilt EPA TCL SOM01.2) Package Due Date: 11/10/17					
NYTCL-8260-R2					
L1740446-05	BMW-15A	1	S0 02NOV17 10:50	3-Vial-B	
8260: Report List BUilt EPA TCL SOM01.2) Package Due Date: 11/10/17					
NYTCL-8260-R2					
L1740446-06	BMW-14A	1	S0 02NOV17 13:15	3-Vial-B	
8260: Report List BUilt EPA TCL SOM01.2) Package Due Date: 11/10/17					
NYTCL-8260-R2					
L1740446-07	FD01-20171103	1	S0 02NOV17 00:00	3-Vial-B	
8260: Report List BUilt EPA TCL SOM01.2) Package Due Date: 11/10/17					

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 09 2017, 06:59 pm

Login Number: L1740446

Account: CTMALE C.T. Male Associates Project: 06.6448

Sample #	Client ID	Received: 03NOV17 Mat PR Collected	Due Date: 10NOV17 Container
----------	-----------	---------------------------------------	--------------------------------

NYTCL-8260-R2

L1740446-08 BMW-18A 1 S0 02NOV17 14:20 3-vial-B

8260: Report List BUilt EPA TCL SOM01.2) Package Due Date: 11/10/17

NYTCL-8260-R2

L1740446-09 TRIP BLANK 1 S0 02NOV17 00:00 2-vial-B

8260: Report List BUilt EPA TCL SOM01.2) Package Due Date: 11/10/17

NYTCL-8260-R2



**NEW YORK
CHAIN OF
CUSTODY**

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers

Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page

1 of 1

Date Rec'd
in Lab

11/4/17

ALPHA Job #

L1740446

Project Information

Project Name: *Old Champlain Mill*

Project Location: *Whitehall, NY*

Project # *066448*

(Use Project name as Project #)

Project Manager: *Jeff Marx*

ALPHAQuote #: *-*

Turn-Around Time

Standard Due Date:
Rush (only if pre approved) # of Days:

Deliverables

- ASP-A
- ASP-B
- EQulS (1 File)
- EQulS (4 File)
- Other

Billing Information

Same as Client Info

PO #

Client Information

Client: *CT Male Associates*

Address: *500 Century Hill Dr.*

Latham, NY 12110

Phone: *518 786 7400*

Fax: *-*

Email: *J.MARX@ctmale.com*

Regulatory Requirement

- NY TOGS
- NY Part 375
- AWQ Standards
- NY CP-51
- NY Restricted Use
- Other
- NY Unrestricted Use
- NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:

- NJ
- NY
- Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

TCL VOCs												

Sample Filtration

- Done
- Lab to do
- Preservation
- Lab to do

(Please Specify below)

Sample Specific Comments

Total Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID		Collection		Sample Matrix	Sampler's Initials	TCL VOCs	ANALYSIS										Sample Specific Comments			
			Date	Time																	
40446-01	BMW-17A		11/2/17	1430	GW	PAL	X														
02	MW-1A		11/3/17	0930	GW	PAL	X														
03	MW-2A		11/3/17	0935	GW	PAL	X														
04	MW-3A		11/3/17	1155	GW	PAL	X														
05	BMW-15A		11/3/17	1050	GW	PAL	X														
06	BMW-14A		11/3/17	1315	GW	PAL	X														
07	FD01-20171103		11/3/17		GW	PAL	X														
08	BMW-18A		11/3/17	1420	GW	PAL	X														
09	TRIP Blank						X														

Preservative Code:
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type **V**

Preservative **B**

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	11.3.17 / 1635	<i>[Signature]</i>	11/3/17 16:40
	11/3/17		11/9/17 00:40

CUSTODY SEAL
Client: _____
Sample ID: **SEAL**
Location: **Plantation 1/2**
Preservative: **None**
Collection Date/Time: **11.3.17 / 1630**
Collected By: _____
Bottle Type: Soil jar **1630**



Organics

GC/MS 8260

Analysis

Volatiles QC Summary

Form 2 Surrogate Recovery VOLATILES

Client: C.T. Male Associates
Project Name: OLD CHAMPLAIN MILL

Lab Number: L1740446
Project Number: 06.6448
Matrix:

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
BMW-17A (L1740446-01)	86	102	118	84	0
MW-1A (L1740446-02)	87	101	116	85	0
MW-2A (L1740446-03D)	93	101	112	89	0
MW-3A (L1740446-04D)	90	101	115	88	0
MW-3A (L1740446-04D2)	94	101	112	90	0
BMW-15A (L1740446-05D)	89	100	115	87	0
BMW-14A (L1740446-06D)	92	100	115	89	0
FD01-20171103 (L1740446-07D)	87	101	114	88	0
BMW-18A (L1740446-08)	88	100	115	85	0
TRIP BLANK (L1740446-09)	83	102	120	82	0
WG1061312-10LCS	92	102	118	87	0
WG1061312-11LCSD	92	102	117	87	0
WG1061312-12BLANK	89	101	115	85	0
WG1061312-3LCS	86	104	122	82	0
WG1061312-4LCSD	86	103	121	83	0
WG1061312-5BLANK	85	102	118	82	0
MW-2AMS	95	100	115	87	0
MW-2AMSD	94	101	117	86	0

QC LIMITS

(70-130) DCA = 1,2-DICHLOROETHANE-D4
 (70-130) TOL = TOLUENE-D8
 (70-130) BFB = 4-BROMOFLUOROBENZENE
 (70-130) DBFM = DIBROMOFLUOROMETHANE)

* Values outside of QC limits

FORM II NYTCL-8260-R2



Laboratory Control Sample Form 3

Client	: C.T. Male Associates	Lab Number	: L1740446
Project Name	: OLD CHAMPLAIN MILL	Project Number	: 06.6448
Matrix	: WATER		
LCS Sample ID	: WG1061312-3	Analysis Date	: 11/08/17 20:53
LCS Sample ID	: WG1061312-4	Analysis Date	: 11/08/17 21:18
		File ID	: V05171108P01
		File ID	: V05171108P02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Methylene chloride	10	10.	100	10	10.	100	0	70-130	20
1,1-Dichloroethane	10	11.	110	10	11.	110	0	70-130	20
Chloroform	10	9.2	92	10	9.3	93	1	70-130	20
Carbon tetrachloride	10	7.7	77	10	7.8	78	1	63-132	20
1,2-Dichloropropane	10	12.	120	10	12.	120	0	70-130	20
Dibromochloromethane	10	8.6	86	10	8.6	86	0	63-130	20
1,1,2-Trichloroethane	10	11.	110	10	11.	110	0	70-130	20
Tetrachloroethene	10	8.5	85	10	8.6	86	1	70-130	20
Chlorobenzene	10	10.	100	10	10.	100	0	75-130	20
Trichlorofluoromethane	10	7.4	74	10	7.4	74	0	62-150	20
1,2-Dichloroethane	10	8.8	88	10	8.9	89	1	70-130	20
1,1,1-Trichloroethane	10	8.5	85	10	8.6	86	1	67-130	20
Bromodichloromethane	10	8.8	88	10	8.9	89	1	67-130	20
trans-1,3-Dichloropropene	10	9.3	93	10	9.2	92	1	70-130	20
cis-1,3-Dichloropropene	10	8.9	89	10	9.0	90	1	70-130	20
Bromoform	10	8.5	85	10	8.6	86	1	54-136	20
1,1,1,2-Tetrachloroethane	10	13.	130	10	13.	130	0	67-130	20
Benzene	10	11.	110	10	11.	110	0	70-130	20
Toluene	10	11.	110	10	11.	110	0	70-130	20
Ethylbenzene	10	11.	110	10	11.	110	0	70-130	20
Chloromethane	10	12.	120	10	12.	120	0	64-130	20
Bromomethane	10	7.0	70	10	6.8	68	3	39-139	20
Vinyl chloride	10	12.	120	10	12.	120	0	55-140	20
Chloroethane	10	11.	110	10	11.	110	0	55-138	20
1,1-Dichloroethene	10	10.	100	10	10.	100	0	61-145	20
trans-1,2-Dichloroethene	10	10.	100	10	10.	100	0	70-130	20
Trichloroethene	10	9.1	91	10	9.3	93	2	70-130	20
1,2-Dichlorobenzene	10	10.	100	10	11.	110	10	70-130	20



Laboratory Control Sample Form 3

Client	: C.T. Male Associates	Lab Number	: L1740446
Project Name	: OLD CHAMPLAIN MILL	Project Number	: 06.6448
Matrix	: WATER		
LCS Sample ID	: WG1061312-3	Analysis Date	: 11/08/17 20:53
LCS Sample ID	: WG1061312-4	Analysis Date	: 11/08/17 21:18
		File ID	: V05171108P01
		File ID	: V05171108P02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
1,3-Dichlorobenzene	10	10.	100	10	11.	110	10	70-130	20
1,4-Dichlorobenzene	10	10.	100	10	10.	100	0	70-130	20
Methyl tert butyl ether	10	10.	100	10	11.	110	10	63-130	20
p/m-Xylene	20	22.	110	20	22.	110	0	70-130	20
o-Xylene	20	21.	105	20	21.	105	0	70-130	20
cis-1,2-Dichloroethene	10	10.	100	10	10.	100	0	70-130	20
Styrene	20	21.	105	20	21.	105	0	70-130	20
Dichlorodifluoromethane	10	8.3	83	10	8.4	84	1	36-147	20
Acetone	10	9.0	90	10	9.3	93	3	58-148	20
Carbon disulfide	10	11.	110	10	11.	110	0	51-130	20
2-Butanone	10	10.	100	10	11.	110	10	63-138	20
4-Methyl-2-pentanone	10	12.	120	10	12.	120	0	59-130	20
2-Hexanone	10	9.7	97	10	9.6	96	1	57-130	20
Bromochloromethane	10	8.5	85	10	8.7	87	2	70-130	20
1,2-Dibromoethane	10	10.	100	10	10.	100	0	70-130	20
1,2-Dibromo-3-chloropropane	10	8.0	80	10	7.9	79	1	41-144	20
Isopropylbenzene	10	12.	120	10	12.	120	0	70-130	20
1,2,3-Trichlorobenzene	10	10.	100	10	10.	100	0	70-130	20
1,2,4-Trichlorobenzene	10	10.	100	10	10.	100	0	70-130	20
Methyl Acetate	10	11.	110	10	11.	110	0	70-130	20
Cyclohexane	10	12.	120	10	12.	120	0	70-130	20
1,4-Dioxane	500	480	96	500	480	96	0	56-162	20
Freon-113	10	9.5	95	10	9.7	97	2	70-130	20
Methyl cyclohexane	10	11.	110	10	11.	110	0	70-130	20



Laboratory Control Sample Form 3

Client	: C.T. Male Associates	Lab Number	: L1740446
Project Name	: OLD CHAMPLAIN MILL	Project Number	: 06.6448
Matrix	: WATER		
LCS Sample ID	: WG1061312-10	Analysis Date	: 11/09/17 08:09
LCS Sample ID	: WG1061312-11	Analysis Date	: 11/09/17 08:34
		File ID	: V05171109A02
		File ID	: V05171109A03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Methylene chloride	10	11.	110	10	11.	110	0	70-130	20
1,1-Dichloroethane	10	11.	110	10	11.	110	0	70-130	20
Chloroform	10	9.4	94	10	9.3	93	1	70-130	20
Carbon tetrachloride	10	8.2	82	10	8.1	81	1	63-132	20
1,2-Dichloropropane	10	12.	120	10	12.	120	0	70-130	20
Dibromochloromethane	10	9.0	90	10	9.0	90	0	63-130	20
1,1,2-Trichloroethane	10	11.	110	10	11.	110	0	70-130	20
Tetrachloroethene	10	8.6	86	10	8.5	85	1	70-130	20
Chlorobenzene	10	10.	100	10	10.	100	0	75-130	20
Trichlorofluoromethane	10	8.9	89	10	8.8	88	1	62-150	20
1,2-Dichloroethane	10	9.3	93	10	9.4	94	1	70-130	20
1,1,1-Trichloroethane	10	8.8	88	10	8.7	87	1	67-130	20
Bromodichloromethane	10	9.1	91	10	9.2	92	1	67-130	20
trans-1,3-Dichloropropene	10	9.0	90	10	9.2	92	2	70-130	20
cis-1,3-Dichloropropene	10	8.7	87	10	8.8	88	1	70-130	20
Bromoform	10	8.8	88	10	9.1	91	3	54-136	20
1,1,1,2-Tetrachloroethane	10	13.	130	10	13.	130	0	67-130	20
Benzene	10	11.	110	10	11.	110	0	70-130	20
Toluene	10	11.	110	10	11.	110	0	70-130	20
Ethylbenzene	10	11.	110	10	11.	110	0	70-130	20
Chloromethane	10	14.	140 Q	10	14.	140 Q	0	64-130	20
Bromomethane	10	8.4	84	10	8.6	86	2	39-139	20
Vinyl chloride	10	15.	150 Q	10	14.	140	7	55-140	20
Chloroethane	10	12.	120	10	12.	120	0	55-138	20
1,1-Dichloroethene	10	11.	110	10	11.	110	0	61-145	20
trans-1,2-Dichloroethene	10	10.	100	10	10.	100	0	70-130	20
Trichloroethene	10	9.3	93	10	9.2	92	1	70-130	20
1,2-Dichlorobenzene	10	11.	110	10	11.	110	0	70-130	20



Laboratory Control Sample Form 3

Client : C.T. Male Associates	Lab Number : L1740446
Project Name : OLD CHAMPLAIN MILL	Project Number : 06.6448
Matrix : WATER	
LCS Sample ID : WG1061312-10 Analysis Date : 11/09/17 08:09	File ID : V05171109A02
LCSD Sample ID : WG1061312-11 Analysis Date : 11/09/17 08:34	File ID : V05171109A03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
1,3-Dichlorobenzene	10	11.	110	10	10.	100	10	70-130	20
1,4-Dichlorobenzene	10	10.	100	10	10.	100	0	70-130	20
Methyl tert butyl ether	10	10.	100	10	11.	110	10	63-130	20
p/m-Xylene	20	22.	110	20	22.	110	0	70-130	20
o-Xylene	20	21.	105	20	21.	105	0	70-130	20
cis-1,2-Dichloroethene	10	10.	100	10	10.	100	0	70-130	20
Styrene	20	21.	105	20	21.	105	0	70-130	20
Dichlorodifluoromethane	10	11.	110	10	11.	110	0	36-147	20
Acetone	10	10.	100	10	10.	100	0	58-148	20
Carbon disulfide	10	12.	120	10	12.	120	0	51-130	20
2-Butanone	10	12.	120	10	12.	120	0	63-138	20
4-Methyl-2-pentanone	10	12.	120	10	12.	120	0	59-130	20
2-Hexanone	10	9.6	96	10	10.	100	4	57-130	20
Bromochloromethane	10	8.9	89	10	9.0	90	1	70-130	20
1,2-Dibromoethane	10	10.	100	10	10.	100	0	70-130	20
1,2-Dibromo-3-chloropropane	10	8.2	82	10	8.4	84	2	41-144	20
Isopropylbenzene	10	11.	110	10	11.	110	0	70-130	20
1,2,3-Trichlorobenzene	10	11.	110	10	11.	110	0	70-130	20
1,2,4-Trichlorobenzene	10	10.	100	10	10.	100	0	70-130	20
Methyl Acetate	10	12.	120	10	12.	120	0	70-130	20
Cyclohexane	10	13.	130	10	12.	120	8	70-130	20
1,4-Dioxane	500	530	106	500	540	108	2	56-162	20
Freon-113	10	10.	100	10	10.	100	0	70-130	20
Methyl cyclohexane	10	11.	110	10	11.	110	0	70-130	20



Matrix Spike Form 3

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Client Sample ID : MW-2A
 Lab Sample ID : L1740446-03
 Matrix Spike : WG1061312-6
 Matrix Spike Dup : WG1061312-7

Lab Number : L1740446
 Project Number : 06.6448
 Matrix : WATER
 Analysis Date : 11/09/17 02:19
 MS Analysis Date : 11/09/17 06:30
 MSD Analysis Date : 11/09/17 06:55

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Methylene chloride	ND	100	120	120	100	130	130	8	70-130	20
1,1-Dichloroethane	ND	100	130	130	100	140	140 Q	7	70-130	20
Chloroform	ND	100	110	110	100	120	120	9	70-130	20
Carbon tetrachloride	ND	100	98.	98	100	100	100	2	63-132	20
1,2-Dichloropropane	ND	100	140	140 Q	100	140	140 Q	0	70-130	20
Dibromochloromethane	ND	100	100	100	100	110	110	10	63-130	20
1,1,2-Trichloroethane	ND	100	130	130	100	140	140 Q	7	70-130	20
Tetrachloroethene	ND	100	97.	97	100	100	100	3	70-130	20
Chlorobenzene	ND	100	120	120	100	120	120	0	75-130	20
Trichlorofluoromethane	ND	100	100	100	100	110	110	10	62-150	20
1,2-Dichloroethane	ND	100	110	110	100	110	110	0	70-130	20
1,1,1-Trichloroethane	ND	100	110	110	100	110	110	0	67-130	20
Bromodichloromethane	ND	100	110	110	100	110	110	0	67-130	20
trans-1,3-Dichloropropene	ND	100	99.	99	100	100	100	1	70-130	20
cis-1,3-Dichloropropene	ND	100	96.	96	100	98.	98	2	70-130	20
Bromoform	ND	100	100	100	100	110	110	10	54-136	20
1,1,2,2-Tetrachloroethane	ND	100	140	140 Q	100	150	150 Q	7	67-130	20
Benzene	ND	100	130	130	100	130	130	0	70-130	20
Toluene	ND	100	130	130	100	130	130	0	70-130	20
Ethylbenzene	ND	100	130	130	100	130	130	0	70-130	20
Chloromethane	ND	100	160	160 Q	100	170	170 Q	6	64-130	20
Bromomethane	ND	100	61.	61	100	80.	80	27 Q	39-139	20
Vinyl chloride	100	100	270	170 Q	100	280	180 Q	4	55-140	20
Chloroethane	ND	100	160	160 Q	100	160	160 Q	0	55-138	20



Matrix Spike Form 3

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Client Sample ID : MW-2A
 Lab Sample ID : L1740446-03
 Matrix Spike : WG1061312-6
 Matrix Spike Dup : WG1061312-7

Lab Number : L1740446
 Project Number : 06.6448
 Matrix : WATER
 Analysis Date : 11/09/17 02:19
 MS Analysis Date : 11/09/17 06:30
 MSD Analysis Date : 11/09/17 06:55

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
1,1-Dichloroethene	ND	100	130	130	100	130	130	0	61-145	20
trans-1,2-Dichloroethene	ND	100	130	130	100	130	130	0	70-130	20
Trichloroethene	730	100	790	60 Q	100	770	40 Q	3	70-130	20
1,2-Dichlorobenzene	ND	100	120	120	100	120	120	0	70-130	20
1,3-Dichlorobenzene	ND	100	120	120	100	120	120	0	70-130	20
1,4-Dichlorobenzene	ND	100	120	120	100	120	120	0	70-130	20
Methyl tert butyl ether	ND	100	120	120	100	120	120	0	63-130	20
p/m-Xylene	ND	200	250	125	200	260	130	4	70-130	20
o-Xylene	ND	200	240	120	200	250	125	4	70-130	20
cis-1,2-Dichloroethene	950	100	1000	50 Q	100	1000	50 Q	0	70-130	20
Styrene	ND	200	240	120	200	250	125	4	70-130	20
Dichlorodifluoromethane	ND	100	120	120	100	120	120	0	36-147	20
Acetone	ND	100	120	120	100	130	130	8	58-148	20
Carbon disulfide	ND	100	130	130	100	140	140 Q	7	51-130	20
2-Butanone	ND	100	140	140 Q	100	140	140 Q	0	63-138	20
4-Methyl-2-pentanone	ND	100	130	130	100	130	130	0	59-130	20
2-Hexanone	ND	100	100	100	100	110	110	10	57-130	20
Bromochloromethane	ND	100	110	110	100	110	110	0	70-130	20
1,2-Dibromoethane	ND	100	120	120	100	120	120	0	70-130	20
1,2-Dibromo-3-chloropropane	ND	100	87.	87	100	94.	94	8	41-144	20
Isopropylbenzene	ND	100	120	120	100	130	130	8	70-130	20
1,2,3-Trichlorobenzene	ND	100	95.	95	100	110	110	15	70-130	20
1,2,4-Trichlorobenzene	ND	100	100	100	100	110	110	10	70-130	20
Methyl Acetate	ND	100	130	130	100	130	130	0	70-130	20



Matrix Spike Form 3

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Client Sample ID : MW-2A
Lab Sample ID : L1740446-03
Matrix Spike : WG1061312-6
Matrix Spike Dup : WG1061312-7

Lab Number : L1740446
Project Number : 06.6448
Matrix : WATER
Analysis Date : 11/09/17 02:19
MS Analysis Date : 11/09/17 06:30
MSD Analysis Date : 11/09/17 06:55

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Cyclohexane	ND	100	140	140 Q	100	140	140 Q	0	70-130	20
1,4-Dioxane	ND	5000	5600	112	5000	6000	120	7	56-162	20
Freon-113	ND	100	110	110	100	120	120	9	70-130	20
Methyl cyclohexane	ND	100	130	130	100	130	130	0	70-130	20



Method Blank Summary Form 4

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Lab Sample ID : WG1061312-5
Instrument ID : VOA105
Matrix : WATER
Lab Number : L1740446
Project Number : 06.6448
Lab File ID : V05171108P05
Analysis Date : 11/08/17 22:33

Client Sample No.	Lab Sample ID	Analysis Date
WG1061312-3LCS	WG1061312-3	11/08/17 20:53
WG1061312-4LCSD	WG1061312-4	11/08/17 21:18
TRIP BLANK	L1740446-09	11/08/17 22:58
BMW-17A	L1740446-01	11/08/17 23:23
MW-1A	L1740446-02	11/08/17 23:49
BMW-18A	L1740446-08	11/09/17 00:14
BMW-15A	L1740446-05D	11/09/17 00:39
FD01-20171103	L1740446-07D	11/09/17 01:04
MW-3A	L1740446-04D	11/09/17 01:29
BMW-14A	L1740446-06D	11/09/17 01:54
MW-2A	L1740446-03D	11/09/17 02:19
MW-2AMS	WG1061312-6	11/09/17 06:30
MW-2AMSD	WG1061312-7	11/09/17 06:55



Method Blank Summary Form 4

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Lab Sample ID : WG1061312-12
Instrument ID : VOA105
Matrix : WATER
Lab Number : L1740446
Project Number : 06.6448
Lab File ID : V05171109A05
Analysis Date : 11/09/17 09:24

Client Sample No.	Lab Sample ID	Analysis Date
WG1061312-10LCS	WG1061312-10	11/09/17 08:09
WG1061312-11LCSD	WG1061312-11	11/09/17 08:34
MW-3A	L1740446-04D2	11/09/17 14:24



**Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5**

Client : C.T. Male Associates	Lab Number : L1740446
Project Name : OLD CHAMPLAIN MILL	Project Number : 06.6448
Instrument ID : VOA105	Analysis Date : 10/26/17 11:53
Tune Standard : WG1056776-1	Tune File ID : V05171026NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	22.1
75	30.0 - 60.0% of mass 95	56.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (.5)1
174	Greater than 50.0 of mass 95	95.8
175	5.0 - 9.0% of mass 174	6.9 (7.2)1
176	95.0 - 101% of mass 174	92.2 (96.2)1
177	5.0 - 9.0% of mass 176	5.9 (6.4)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD11	R1016593-1	V05171026N03	10/26/17 13:02
STD1	R1016593-2	V05171026N04	10/26/17 13:27
STD2	R1016593-3	V05171026N07	10/26/17 14:43
STD3	R1016593-4	V05171026N08	10/26/17 15:08
STD4	R1016593-5	V05171026N09	10/26/17 15:33
STD6	R1016593-6	V05171026N10	10/26/17 15:58
STD8	R1016593-8	V05171026N11	10/26/17 16:24
STD10	R1016593-7	V05171026N12	10/26/17 16:49
ICV Quant Report	R1016593-9	V05171026N18	10/26/17 19:19
ICV Summary Form	R1016593-9	V05171026N18	10/26/17 19:19



**Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5**

Client : C.T. Male Associates	Lab Number : L1740446
Project Name : OLD CHAMPLAIN MILL	Project Number : 06.6448
Instrument ID : VOA105	Analysis Date : 11/08/17 20:34
Tune Standard : WG1061312-1	Tune File ID : V05171108PBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.7
75	30.0 - 60.0% of mass 95	51.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.5 (.8)1
174	Greater than 50.0 of mass 95	71.4
175	5.0 - 9.0% of mass 174	5.2 (7.2)1
176	95.0 - 101% of mass 174	70.3 (98.4)1
177	5.0 - 9.0% of mass 176	4.6 (6.5)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1061312-2CCAL	WG1061312-2	V05171108P01	11/08/17 20:53
WG1061312-3LCS	WG1061312-3	V05171108P01	11/08/17 20:53
WG1061312-4LCSD	WG1061312-4	V05171108P02	11/08/17 21:18
WG1061312-5BLANK	WG1061312-5	V05171108P05	11/08/17 22:33
TRIP BLANK	L1740446-09	V05171108P06	11/08/17 22:58
BMW-17A	L1740446-01	V05171108P07	11/08/17 23:23
MW-1A	L1740446-02	V05171108P08	11/08/17 23:49
BMW-18A	L1740446-08	V05171108P09	11/09/17 00:14
BMW-15A	L1740446-05D	V05171108P10	11/09/17 00:39
FD01-20171103	L1740446-07D	V05171108P11	11/09/17 01:04
MW-3A	L1740446-04D	V05171108P12	11/09/17 01:29
BMW-14A	L1740446-06D	V05171108P13	11/09/17 01:54
MW-2A	L1740446-03D	V05171108P14	11/09/17 02:19
WG1061312-6MS	WG1061312-6	V05171108P24	11/09/17 06:30
WG1061312-7MSD	WG1061312-7	V05171108P25	11/09/17 06:55



**Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5**

Client : C.T. Male Associates	Lab Number : L1740446
Project Name : OLD CHAMPLAIN MILL	Project Number : 06.6448
Instrument ID : VOA105	Analysis Date : 11/09/17 07:25
Tune Standard : WG1061312-8	Tune File ID : V05171109ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	52.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.4 (.5)1
174	Greater than 50.0 of mass 95	76.4
175	5.0 - 9.0% of mass 174	5.6 (7.3)1
176	95.0 - 101% of mass 174	74.8 (97.8)1
177	5.0 - 9.0% of mass 176	4.8 (6.4)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1061312-10LCS	WG1061312-10	V05171109A02	11/09/17 08:09
WG1061312-9CCAL	WG1061312-9	V05171109A02	11/09/17 08:09
WG1061312-11LCSD	WG1061312-11	V05171109A03	11/09/17 08:34
WG1061312-12BLANK	WG1061312-12	V05171109A05	11/09/17 09:24
MW-3A	L1740446-04D2	V05171109A12	11/09/17 14:24



Internal Standard Area and RT Summary Form 8

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Instrument ID : VOA105
 Sample No : WG1061312-2

Lab Number : L1740446
 Project Number : 06.6448
 Analysis Date : 11/08/17 20:53
 Lab File ID : V05171108P01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1061312-2	1085488	6.21	758413	9.76	355962	12.42
Upper Limit	2170976	6.71	1516826	10.26	711924	12.92
Lower Limit	542744	5.71	379207	9.26	177981	11.92
Sample ID						
WG1061312-4 LCSD	1074389	6.21	759092	9.76	353888	12.42
WG1061312-5 BLANK	1019310	6.21	711625	9.76	321940	12.42
TRIP BLANK	985845	6.21	687867	9.76	303423	12.42
BMW-17A	970260	6.21	679591	9.77	306531	12.42
MW-1A	945552	6.21	666588	9.77	303184	12.42
BMW-18A	931488	6.21	659909	9.77	299789	12.42
BMW-15A	914218	6.21	640340	9.77	292586	12.42
FD01-20171103	876168	6.21	611493	9.76	278415	12.42
MW-3A	876914	6.21	610757	9.77	279953	12.42
BMW-14A	826091	6.21	583599	9.76	263862	12.42
MW-2A	797313	6.21	561323	9.77	260168	12.42
MW-2A MS	855536	6.21	622041	9.77	310372	12.42
MW-2A MSD	880467	6.21	634306	9.76	309532	12.42
WG1061312-8 BFB	-	-	-	-	-	-

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits



Internal Standard Area and RT Summary Form 8

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Instrument ID : VOA105
 Sample No : WG1061312-9

Lab Number : L1740446
 Project Number : 06.6448
 Analysis Date : 11/09/17 08:09
 Lab File ID : V05171109A02

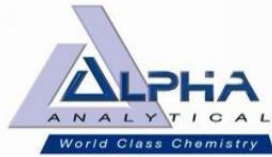
	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1061312-9	914886	6.21	656090	9.77	321389	12.42
Upper Limit	1829772	6.71	1312180	10.27	642778	12.92
Lower Limit	457443	5.71	328045	9.27	160695	11.92
Sample ID						
WG1061312-10 LCS	914886	6.21	656090	9.77	321389	12.42
WG1061312-11 LCSD	921639	6.21	660031	9.77	324945	12.42
WG1061312-12 BLANK	855058	6.21	605477	9.77	276068	12.42
MW-3A	654660	6.21	461787	9.76	209277	12.42

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits





Date Created: 08/11/17
 Created By: Jason Hebert
 File: PM3913-1
 Page: 1

Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
 Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20	
1,1-Dichloroethane	75-34-3	0.75	0.21	ug/l	70-130	20	70-130	20	20	
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20	
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20	
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20	
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20	
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20	
2-Chloroethylvinyl ether	110-75-8	10	0.402	ug/l	70-130	20	70-130	20	20	
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20	
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25	
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20	
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20	
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20	
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20	
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20	
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20	
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20	
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20	
1,1-Dichloropropene	563-58-6	2.5	0.24	ug/l	70-130	20	70-130	20	20	
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20	
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20	
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25	
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25	
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20	
Chloromethane	74-87-3	2.5	0.2	ug/l	64-130	20	64-130	20	20	
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20	
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20	
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20	
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25	
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20	
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20	
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20	
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25	
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20	
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20	
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20	
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20	
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20	
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20	
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20	
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20	
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



8 Walkup Drive, Westborough, Massachusetts 01581 • 508-898-9220 • www.alphalab.com
 Westborough, MA • Mansfield, MA • Bangor, ME • Portsmouth, NH • Mahwah, NJ • Albany, NY • Buffalo, NY • Holmes, PA





Date Created: 08/11/17
 Created By: Jason Hebert
 File: PM3913-1
 Page: 2

Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
 Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20	
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20	
Iodomethane	74-88-4	5	0.398	ug/l	70-130	20	70-130	20	20	
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20	
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20	
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20	
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20	
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20	
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20	
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20	
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20	
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20	
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20	
Acrolein	107-02-8	5	0.441	ug/l	70-130	20	70-130	20	20	
Acrylonitrile	107-13-1	5	0.43	ug/l	70-130	20	70-130	20	20	
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20	
Tetrahydrofuran	109-99-9	5	0.834	ug/l	58-130	20	58-130	20	20	
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20	
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20	
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20	
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20	
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20	
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20	
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20	
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20	
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20	
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20	
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20	
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20	
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20	
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20	
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20	
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20	
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20	
1,2,4-Trichlorobenzene	120-82-1	2.5	0.22	ug/l	70-130	20	70-130	20	20	
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20	
1,3,5-Trichlorobenzene	108-70-3	2	0.141	ug/l	70-130	20	70-130	20	20	
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20	
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20	
Halothane	151-67-7	2.5	0.287	ug/l	70-130	20	70-130	30	30	
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20	
Methyl Acetate	79-20-9	10	0.234	ug/l	70-130	20	70-130	20	20	

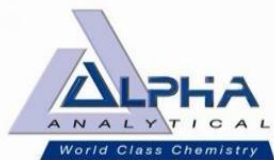
Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



8 Walkup Drive, Westborough, Massachusetts 01581 • 508-898-9220 • www.alphalab.com

Westborough, MA • Mansfield, MA • Bangor, ME • Portsmouth, NH • Mahwah, NJ • Albany, NY • Buffalo, NY • Holmes, PA





Date Created: 08/11/17
 Created By: Jason Hebert
 File: PM3913-1
 Page: 3

Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
 Container/Sample Preservation: 3 - Vial HCl preserved

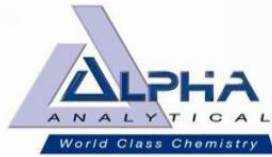
Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Ethyl Acetate	141-78-6	10	0.716	ug/l	70-130	20	70-130	20	20	
Acetonitrile	75-05-8	20	20	ug/l	70-130	20	70-130	20	20	
n-Hexane	110-54-3	10	10	ug/l	70-130	20	70-130	20	20	
Isopropyl Ether	108-20-3	2	0.425	ug/l	70-130	20	70-130	20	20	
Cyclohexane	110-82-7	10	0.271	ug/l	70-130	20	70-130	20	20	
Heptane	142-82-5	10	10	ug/l	70-130	20	70-130	20	20	
Butyl Acetate	123-86-4	10	10	ug/l	70-130	20	70-130	20	20	
tert-Butyl Alcohol	75-65-0	10	1.4	ug/l	70-130	20	70-130	20	20	
Ethyl-Tert-Butyl-Ether	637-92-3	2	0.179	ug/l	70-130	20	70-130	20	20	
Tertiary-Amyl Methyl Ether	994-05-8	2	0.278	ug/l	66-130	20	66-130	20	20	
1,4-Dioxane	123-91-1	250	60.8	ug/l	56-162	20	56-162	20	20	
Methyl Methacrylate	80-62-6	2.5	0.321	ug/l	70-130	20	70-130	20	20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	10	0.148	ug/l	70-130	20	70-130	20	20	
iso-Butyl Alcohol	78-83-1	10	3.97	ug/l	70-130	20	70-130	20	20	
Methyl cyclohexane	108-87-2	10	0.396	ug/l	70-130	20	70-130	20	20	
Ethyl Alcohol	GCDAI06	250	14.5	ug/l	70-130	20	70-130	20	20	
Methyl Isothiocyanate	556-61-6	2	2	ug/l	70-130	20	70-130	20	20	
2-Pentanone	107-87-9	2	2	ug/l	70-130	20	70-130	20	20	
iso-Propyl Alcohol	67-63-0	100	3.52	ug/l	70-130	20	70-130	20	20	
1,4-Diethylbenzene	105-05-5	2	0.392	ug/l	70-130	20	70-130	20	20	
4-Ethyltoluene	622-96-8	2	0.34	ug/l	70-130	20	70-130	20	20	
1,2,4,5-Tetramethylbenzene	95-93-2	2	0.542	ug/l	70-130	20	70-130	20	20	
sec-Butyl Alcohol	78-92-2	25	6.84	ug/l	70-130	20	70-130	20	20	
4-Penten-2-Ol	625-31-0	100	6.61	ug/l	70-130	20	70-130	20	20	
2-Methyl-2-Butanol	75-85-4	25	7.04	ug/l	70-130	20	70-130	20	20	
4-Methyl-2-Pentanol	108-11-2	25	6.74	ug/l	70-130	20	70-130	20	20	
n-Butyl Alcohol	71-36-3	100	8.02	ug/l	70-130	20	70-130	20	20	
Chloropicrin	76-06-02	20	2.95	ug/l	70-130	20	70-130	20	20	
Pentachloroethane	76-01-7	2	0.589	ug/l	70-130	20	70-130	20	20	
1,2-Dichloroethane-d4	17060-07-0									70-130
Toluene-d8	2037-26-5									70-130
4-Bromofluorobenzene	460-00-4									70-130
Dibromofluoromethane	1868-53-7									70-130

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



8 Walkup Drive, Westborough, Massachusetts 01581 • 508-898-9220 • www.alphalab.com
 Westborough, MA • Mansfield, MA • Bangor, ME • Portsmouth, NH • Mahwah, NJ • Albany, NY • Buffalo, NY • Holmes, PA





Date Created: 11/07/16
 Created By: Jason Hebert
 File: PM2971-1
 Page: 1

Volatile Organics - EPA 8260C/5035 High (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - Vial MeOH preserved

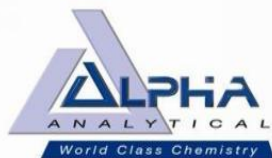
Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Methylene chloride	75-09-2	500	55.2	ug/kg	70-130	30	70-130	30	30	
1,1-Dichloroethane	75-34-3	75	4.28	ug/kg	70-130	30	70-130	30	30	
Chloroform	67-66-3	75	18.5	ug/kg	70-130	30	70-130	30	30	
Carbon tetrachloride	56-23-5	50	10.5	ug/kg	70-130	30	70-130	30	30	
1,2-Dichloropropane	78-87-5	175	11.4	ug/kg	70-130	30	70-130	30	30	
Dibromochloromethane	124-48-1	50	7.68	ug/kg	70-130	30	70-130	30	30	
1,1,2-Trichloroethane	79-00-5	75	15.2	ug/kg	70-130	30	70-130	30	30	
Tetrachloroethene	127-18-4	50	7.01	ug/kg	70-130	30	70-130	30	30	
Chlorobenzene	108-90-7	50	17.4	ug/kg	70-130	30	70-130	30	30	
Trichlorofluoromethane	75-69-4	250	19.4	ug/kg	70-139	30	70-139	30	30	
1,2-Dichloroethane	107-06-2	50	5.67	ug/kg	70-130	30	70-130	30	30	
1,1,1-Trichloroethane	71-55-6	50	5.54	ug/kg	70-130	30	70-130	30	30	
Bromodichloromethane	75-27-4	50	8.66	ug/kg	70-130	30	70-130	30	30	
trans-1,3-Dichloropropene	10061-02-6	50	6.04	ug/kg	70-130	30	70-130	30	30	
cis-1,3-Dichloropropene	10061-01-5	50	5.88	ug/kg	70-130	30	70-130	30	30	
1,3-Dichloropropene, Total	542-75-6	50	5.88	ug/kg				30	30	
1,3-Dichloropropene, Total	542-75-6	50	5.88	ug/kg				30	30	
1,1-Dichloropropene	563-58-6	250	7.07	ug/kg	70-130	30	70-130	30	30	
Bromoform	75-25-2	200	11.8	ug/kg	70-130	30	70-130	30	30	
1,1,2,2-Tetrachloroethane	79-34-5	50	5.04	ug/kg	70-130	30	70-130	30	30	
Benzene	71-43-2	50	5.9	ug/kg	70-130	30	70-130	30	30	
Toluene	108-88-3	75	9.74	ug/kg	70-130	30	70-130	30	30	
Ethylbenzene	100-41-4	50	6.37	ug/kg	70-130	30	70-130	30	30	
Chloromethane	74-87-3	250	14.7	ug/kg	52-130	30	52-130	30	30	
Bromomethane	74-83-9	100	16.9	ug/kg	57-147	30	57-147	30	30	
Vinyl chloride	75-01-4	100	5.87	ug/kg	67-130	30	67-130	30	30	
Chloroethane	75-00-3	100	15.8	ug/kg	50-151	30	50-151	30	30	
1,1-Dichloroethene	75-35-4	50	13.1	ug/kg	65-135	30	65-135	30	30	
trans-1,2-Dichloroethene	156-60-5	75	10.6	ug/kg	70-130	30	70-130	30	30	
Trichloroethene	79-01-6	50	6.25	ug/kg	70-130	30	70-130	30	30	
1,2-Dichlorobenzene	95-50-1	250	7.66	ug/kg	70-130	30	70-130	30	30	
1,3-Dichlorobenzene	541-73-1	250	6.75	ug/kg	70-130	30	70-130	30	30	
1,4-Dichlorobenzene	106-46-7	250	6.92	ug/kg	70-130	30	70-130	30	30	
Methyl tert butyl ether	1634-04-4	100	4.22	ug/kg	66-130	30	66-130	30	30	
p/m-Xylene	179601-23-1	100	17.55	ug/kg	70-130	30	70-130	30	30	
o-Xylene	95-47-6	100	16.9	ug/kg	70-130	30	70-130	30	30	
Xylene (Total)	1330-20-7	100	8.59	ug/kg				30	30	
Xylene (Total)	1330-20-7	100	8.59	ug/kg				30	30	
cis-1,2-Dichloroethene	156-59-2	50	7.14	ug/kg	70-130	30	70-130	30	30	
1,2-Dichloroethene (total)	540-59-0	50	7.14	ug/kg				30	30	
1,2-Dichloroethene (total)	540-59-0	50	7.14	ug/kg				30	30	
Dibromomethane	74-95-3	500	8.18	ug/kg	70-130	30	70-130	30	30	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



8 Walkup Drive, Westborough, Massachusetts 01581 • 508-898-9220 • www.alphalab.com
 Westborough, MA • Mansfield, MA • Bangor, ME • Portsmouth, NH • Mahwah, NJ • Albany, NY • Buffalo, NY • Holmes, PA





Date Created: 11/07/16
 Created By: Jason Hebert
 File: PM2971-1
 Page: 2

Volatile Organics - EPA 8260C/5035 High (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - Vial MeOH preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
1,4-Dichlorobutane	110-56-5	500	6.6	ug/kg	70-130	30	70-130	30	30	
1,2,3-Trichloropropane	96-18-4	500	8.13	ug/kg	68-130	30	68-130	30	30	
Styrene	100-42-5	100	20.1	ug/kg	70-130	30	70-130	30	30	
Dichlorodifluoromethane	75-71-8	500	9.54	ug/kg	30-146	30	30-146	30	30	
Acetone	67-64-1	1800	51.8	ug/kg	54-140	30	54-140	30	30	
Carbon disulfide	75-15-0	500	55.1	ug/kg	59-130	30	59-130	30	30	
2-Butanone	78-93-3	500	13.6	ug/kg	70-130	30	70-130	30	30	
Vinyl acetate	108-05-4	500	6.61	ug/kg	70-130	30	70-130	30	30	
4-Methyl-2-pentanone	108-10-1	500	12.2	ug/kg	70-130	30	70-130	30	30	
2-Hexanone	591-78-6	500	33.3	ug/kg	70-130	30	70-130	30	30	
Ethyl methacrylate	97-63-2	500	7.73	ug/kg	70-130	30	70-130	30	30	
Acrylonitrile	107-13-1	200	25.7	ug/kg	70-130	30	70-130	30	30	
Bromochloromethane	74-97-5	250	13.8	ug/kg	70-130	30	70-130	30	30	
Tetrahydrofuran	109-99-9	1000	49.8	ug/kg	66-130	30	66-130	30	30	
2,2-Dichloropropane	594-20-7	250	11.3	ug/kg	70-130	30	70-130	30	30	
1,2-Dibromoethane	106-93-4	200	8.72	ug/kg	70-130	30	70-130	30	30	
1,3-Dichloropropane	142-28-9	250	7.26	ug/kg	69-130	30	69-130	30	30	
1,1,1,2-Tetrachloroethane	630-20-6	50	15.9	ug/kg	70-130	30	70-130	30	30	
Bromobenzene	108-86-1	250	10.4	ug/kg	70-130	30	70-130	30	30	
n-Butylbenzene	104-51-8	50	5.74	ug/kg	70-130	30	70-130	30	30	
sec-Butylbenzene	135-98-8	50	6.1	ug/kg	70-130	30	70-130	30	30	
tert-Butylbenzene	98-06-6	250	6.77	ug/kg	70-130	30	70-130	30	30	
1,3,5-Trichlorobenzene	108-70-3	200	11.5	ug/kg	70-130	30	70-130	30	30	
o-Chlorotoluene	95-49-8	250	7.99	ug/kg	70-130	30	70-130	30	30	
p-Chlorotoluene	106-43-4	250	6.64	ug/kg	70-130	30	70-130	30	30	
1,2-Dibromo-3-chloropropane	96-12-8	250	19.8	ug/kg	68-130	30	68-130	30	30	
Hexachlorobutadiene	87-68-3	250	11.4	ug/kg	67-130	30	67-130	30	30	
Isopropylbenzene	98-82-8	50	5.19	ug/kg	70-130	30	70-130	30	30	
p-Isopropyltoluene	99-87-6	50	6.25	ug/kg	70-130	30	70-130	30	30	
Naphthalene	91-20-3	250	6.92	ug/kg	70-130	30	70-130	30	30	
n-Propylbenzene	103-65-1	50	5.46	ug/kg	70-130	30	70-130	30	30	
1,2,3-Trichlorobenzene	87-61-6	250	7.38	ug/kg	70-130	30	70-130	30	30	
1,2,4-Trichlorobenzene	120-82-1	250	9.09	ug/kg	70-130	30	70-130	30	30	
1,3,5-Trimethylbenzene	108-67-8	250	7.17	ug/kg	70-130	30	70-130	30	30	
1,2,4-Trimethylbenzene	95-63-6	250	7.07	ug/kg	70-130	30	70-130	30	30	
trans-1,4-Dichloro-2-butene	110-57-6	250	19.6	ug/kg	70-130	30	70-130	30	30	
iso-Propyl Alcohol	67-63-0	5000	5000	ug/kg	70-130	20	70-130	20	20	
Ethyl ether	60-29-7	250	13	ug/kg	67-130	30	67-130	30	30	
Methyl Acetate	79-20-9	1000	13.5	ug/kg	65-130	30	65-130	30	30	
Ethyl Acetate	141-78-6	1000	46.1	ug/kg	70-130	30	70-130	30	30	
Isopropyl Ether	108-20-3	200	6.98	ug/kg	66-130	30	66-130	30	30	
Cyclohexane	110-82-7	1000	7.3	ug/kg	70-130	30	70-130	30	30	

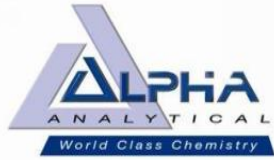
Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



8 Walkup Drive, Westborough, Massachusetts 01581 • 508-898-9220 • www.alphalab.com

Westborough, MA • Mansfield, MA • Bangor, ME • Portsmouth, NH • Mahwah, NJ • Albany, NY • Buffalo, NY • Holmes, PA





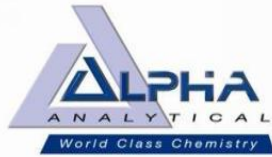
Date Created: 11/07/16
 Created By: Jason Hebert
 File: PM2971-1
 Page: 3

Volatile Organics - EPA 8260C/5035 High (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - Vial MeOH preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Ethyl-Tert-Butyl-Ether	637-92-3	200	5.79	ug/kg	70-130	30	70-130	30	30			
Tertiary-Amyl Methyl Ether	994-05-8	200	4.83	ug/kg	70-130	30	70-130	30	30			
Ethyl Alcohol	GCDAI06	50000	10500	ug/kg	70-130	30	70-130	30	30			
1,4-Dioxane	123-91-1	5000	721	ug/kg	65-136	30	65-136	30	30			
Methyl cyclohexane	108-87-2	200	7.73	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	1000	13.7	ug/kg	70-130	30	70-130	30	30			
1,4-Diethylbenzene	105-05-5	200	7.99	ug/kg	70-130	30	70-130	30	30			
4-Ethyltoluene	622-96-8	200	6.2	ug/kg	70-130	30	70-130	30	30			
1,2,4,5-Tetramethylbenzene	95-93-2	200	6.51	ug/kg	70-130	30	70-130	30	30			
<i>1,2-Dichloroethane-d4</i>	<i>17060-07-0</i>											<i>70-130</i>
<i>Toluene-d8</i>	<i>2037-26-5</i>											<i>70-130</i>
<i>4-Bromofluorobenzene</i>	<i>460-00-4</i>											<i>70-130</i>
<i>Dibromofluoromethane</i>	<i>1868-53-7</i>											<i>70-130</i>

*Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.*



Date Created: 11/07/16
 Created By: Jason Hebert
 File: PM2971-1
 Page: 1

VOCs - EPA 8260C/5035 High & Low (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

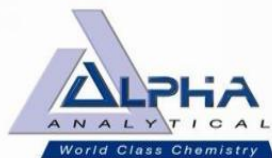
Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Methylene chloride	75-09-2	10	1.104	ug/kg	70-130	30	70-130	30	30	
1,1-Dichloroethane	75-34-3	1.5	0.0856	ug/kg	70-130	30	70-130	30	30	
Chloroform	67-66-3	1.5	0.37	ug/kg	70-130	30	70-130	30	30	
Carbon tetrachloride	56-23-5	1	0.21	ug/kg	70-130	30	70-130	30	30	
1,2-Dichloropropane	78-87-5	3.5	0.228	ug/kg	70-130	30	70-130	30	30	
Dibromochloromethane	124-48-1	1	0.1536	ug/kg	70-130	30	70-130	30	30	
1,1,2-Trichloroethane	79-00-5	1.5	0.304	ug/kg	70-130	30	70-130	30	30	
Tetrachloroethene	127-18-4	1	0.1402	ug/kg	70-130	30	70-130	30	30	
Chlorobenzene	108-90-7	1	0.348	ug/kg	70-130	30	70-130	30	30	
Trichlorofluoromethane	75-69-4	5	0.388	ug/kg	70-139	30	70-139	30	30	
1,2-Dichloroethane	107-06-2	1	0.1134	ug/kg	70-130	30	70-130	30	30	
1,1,1-Trichloroethane	71-55-6	1	0.1108	ug/kg	70-130	30	70-130	30	30	
Bromodichloromethane	75-27-4	1	0.1732	ug/kg	70-130	30	70-130	30	30	
trans-1,3-Dichloropropene	10061-02-6	1	0.1208	ug/kg	70-130	30	70-130	30	30	
cis-1,3-Dichloropropene	10061-01-5	1	0.1176	ug/kg	70-130	30	70-130	30	30	
1,3-Dichloropropene, Total	542-75-6	1	0.1176	ug/kg				30	30	
1,3-Dichloropropene, Total	542-75-6	1	0.1176	ug/kg				30	30	
1,1-Dichloropropene	563-58-6	5	0.1414	ug/kg	70-130	30	70-130	30	30	
Bromoform	75-25-2	4	0.236	ug/kg	70-130	30	70-130	30	30	
1,1,2,2-Tetrachloroethane	79-34-5	1	0.1008	ug/kg	70-130	30	70-130	30	30	
Benzene	71-43-2	1	0.118	ug/kg	70-130	30	70-130	30	30	
Toluene	108-88-3	1.5	0.1948	ug/kg	70-130	30	70-130	30	30	
Ethylbenzene	100-41-4	1	0.1274	ug/kg	70-130	30	70-130	30	30	
Chloromethane	74-87-3	5	0.294	ug/kg	52-130	30	52-130	30	30	
Bromomethane	74-83-9	2	0.338	ug/kg	57-147	30	57-147	30	30	
Vinyl chloride	75-01-4	2	0.1174	ug/kg	67-130	30	67-130	30	30	
Chloroethane	75-00-3	2	0.316	ug/kg	50-151	30	50-151	30	30	
1,1-Dichloroethene	75-35-4	1	0.262	ug/kg	65-135	30	65-135	30	30	
trans-1,2-Dichloroethene	156-60-5	1.5	0.212	ug/kg	70-130	30	70-130	30	30	
Trichloroethene	79-01-6	1	0.125	ug/kg	70-130	30	70-130	30	30	
1,2-Dichlorobenzene	95-50-1	5	0.1532	ug/kg	70-130	30	70-130	30	30	
1,3-Dichlorobenzene	541-73-1	5	0.135	ug/kg	70-130	30	70-130	30	30	
1,4-Dichlorobenzene	106-46-7	5	0.1384	ug/kg	70-130	30	70-130	30	30	
Methyl tert butyl ether	1634-04-4	2	0.0844	ug/kg	66-130	30	66-130	30	30	
p/m-Xylene	179601-23-1	2	0.351	ug/kg	70-130	30	70-130	30	30	
o-Xylene	95-47-6	2	0.338	ug/kg	70-130	30	70-130	30	30	
Xylene (Total)	1330-20-7	2	0.1718	ug/kg				30	30	
Xylene (Total)	1330-20-7	2	0.1718	ug/kg				30	30	
cis-1,2-Dichloroethene	156-59-2	1	0.1428	ug/kg	70-130	30	70-130	30	30	
1,2-Dichloroethene (total)	540-59-0	1	0.1428	ug/kg				30	30	
1,2-Dichloroethene (total)	540-59-0	1	0.1428	ug/kg				30	30	
Dibromomethane	74-95-3	10	0.1636	ug/kg	70-130	30	70-130	30	30	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



8 Walkup Drive, Westborough, Massachusetts 01581 • 508-898-9220 • www.alphalab.com
 Westborough, MA • Mansfield, MA • Bangor, ME • Portsmouth, NH • Mahwah, NJ • Albany, NY • Buffalo, NY • Holmes, PA





Date Created: 11/07/16
 Created By: Jason Hebert
 File: PM2971-1
 Page: 2

VOCs - EPA 8260C/5035 High & Low (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
1,4-Dichlorobutane	110-56-5	10	0.132	ug/kg	70-130	30	70-130	30	30	
1,2,3-Trichloropropane	96-18-4	10	0.1626	ug/kg	68-130	30	68-130	30	30	
Styrene	100-42-5	2	0.402	ug/kg	70-130	30	70-130	30	30	
Dichlorodifluoromethane	75-71-8	10	0.1908	ug/kg	30-146	30	30-146	30	30	
Acetone	67-64-1	36	1.036	ug/kg	54-140	30	54-140	30	30	
Carbon disulfide	75-15-0	10	1.102	ug/kg	59-130	30	59-130	30	30	
2-Butanone	78-93-3	10	0.272	ug/kg	70-130	30	70-130	30	30	
Vinyl acetate	108-05-4	10	0.1322	ug/kg	70-130	30	70-130	30	30	
4-Methyl-2-pentanone	108-10-1	10	0.244	ug/kg	70-130	30	70-130	30	30	
2-Hexanone	591-78-6	10	0.666	ug/kg	70-130	30	70-130	30	30	
Ethyl methacrylate	97-63-2	10	0.1546	ug/kg	70-130	30	70-130	30	30	
Acrylonitrile	107-13-1	4	0.514	ug/kg	70-130	30	70-130	30	30	
Bromochloromethane	74-97-5	5	0.276	ug/kg	70-130	30	70-130	30	30	
Tetrahydrofuran	109-99-9	20	0.996	ug/kg	66-130	30	66-130	30	30	
2,2-Dichloropropane	594-20-7	5	0.226	ug/kg	70-130	30	70-130	30	30	
1,2-Dibromoethane	106-93-4	4	0.1744	ug/kg	70-130	30	70-130	30	30	
1,3-Dichloropropane	142-28-9	5	0.1452	ug/kg	69-130	30	69-130	30	30	
1,1,1,2-Tetrachloroethane	630-20-6	1	0.318	ug/kg	70-130	30	70-130	30	30	
Bromobenzene	108-86-1	5	0.208	ug/kg	70-130	30	70-130	30	30	
n-Butylbenzene	104-51-8	1	0.1148	ug/kg	70-130	30	70-130	30	30	
sec-Butylbenzene	135-98-8	1	0.122	ug/kg	70-130	30	70-130	30	30	
tert-Butylbenzene	98-06-6	5	0.1354	ug/kg	70-130	30	70-130	30	30	
1,3,5-Trichlorobenzene	108-70-3	4	0.23	ug/kg	70-130	30	70-130	30	30	
o-Chlorotoluene	95-49-8	5	0.1598	ug/kg	70-130	30	70-130	30	30	
p-Chlorotoluene	106-43-4	5	0.1328	ug/kg	70-130	30	70-130	30	30	
1,2-Dibromo-3-chloropropane	96-12-8	5	0.396	ug/kg	68-130	30	68-130	30	30	
Hexachlorobutadiene	87-68-3	5	0.228	ug/kg	67-130	30	67-130	30	30	
Isopropylbenzene	98-82-8	1	0.1038	ug/kg	70-130	30	70-130	30	30	
p-Isopropyltoluene	99-87-6	1	0.125	ug/kg	70-130	30	70-130	30	30	
Naphthalene	91-20-3	5	0.1384	ug/kg	70-130	30	70-130	30	30	
n-Propylbenzene	103-65-1	1	0.1092	ug/kg	70-130	30	70-130	30	30	
1,2,3-Trichlorobenzene	87-61-6	5	0.1476	ug/kg	70-130	30	70-130	30	30	
1,2,4-Trichlorobenzene	120-82-1	5	0.1818	ug/kg	70-130	30	70-130	30	30	
1,3,5-Trimethylbenzene	108-67-8	5	0.1434	ug/kg	70-130	30	70-130	30	30	
1,2,4-Trimethylbenzene	95-63-6	5	0.1414	ug/kg	70-130	30	70-130	30	30	
trans-1,4-Dichloro-2-butene	110-57-6	5	0.392	ug/kg	70-130	30	70-130	30	30	
Ethyl ether	60-29-7	5	0.26	ug/kg	67-130	30	67-130	30	30	
Methyl Acetate	79-20-9	20	0.27	ug/kg	65-130	30	65-130	30	30	
Ethyl Acetate	141-78-6	20	0.922	ug/kg	70-130	30	70-130	30	30	
Isopropyl Ether	108-20-3	4	0.1396	ug/kg	66-130	30	66-130	30	30	
Cyclohexane	110-82-7	20	0.146	ug/kg	70-130	30	70-130	30	30	
Ethyl-Tert-Butyl-Ether	637-92-3	4	0.1158	ug/kg	70-130	30	70-130	30	30	

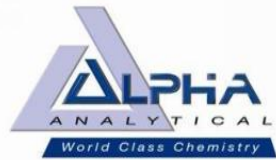
Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



8 Walkup Drive, Westborough, Massachusetts 01581 • 508-898-9220 • www.alphalab.com

Westborough, MA • Mansfield, MA • Bangor, ME • Portsmouth, NH • Mahwah, NJ • Albany, NY • Buffalo, NY • Holmes, PA





Date Created: 11/07/16
 Created By: Jason Hebert
 File: PM2971-1
 Page: 3

VOCs - EPA 8260C/5035 High & Low (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Tertiary-Amyl Methyl Ether	994-05-8	4	0.0966	ug/kg	70-130	30	70-130	30	30	
1,4-Dioxane	123-91-1	100	14.42	ug/kg	65-136	30	65-136	30	30	
Methyl cyclohexane	108-87-2	4	0.1546	ug/kg	70-130	30	70-130	30	30	
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	20	0.274	ug/kg	70-130	30	70-130	30	30	
<i>1,2-Dichloroethane-d4</i>	<i>17060-07-0</i>									<i>70-130</i>
<i>Toluene-d8</i>	<i>2037-26-5</i>									<i>70-130</i>
<i>4-Bromofluorobenzene</i>	<i>460-00-4</i>									<i>70-130</i>
<i>Dibromofluoromethane</i>	<i>1868-53-7</i>									<i>70-130</i>

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



8 Walkup Drive, Westborough, Massachusetts 01581 • 508-898-9220 • www.alphalab.com
 Westborough, MA • Mansfield, MA • Bangor, ME • Portsmouth, NH • Mahwah, NJ • Albany, NY • Buffalo, NY • Holmes, PA



Volatiles Sample Data

Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-01
 Client ID : BMW-17A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P07
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 14:30
 Date Received : 11/03/17
 Date Analyzed : 11/08/17 23:23
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	12	1.0	0.07	
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-01
 Client ID : BMW-17A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P07
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 14:30
 Date Received : 11/03/17
 Date Analyzed : 11/08/17 23:23
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-02
 Client ID : MW-1A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P08
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 08:30
 Date Received : 11/03/17
 Date Analyzed : 11/08/17 23:49
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	33	1.0	0.07	
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-02
 Client ID : MW-1A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P08
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 08:30
 Date Received : 11/03/17
 Date Analyzed : 11/08/17 23:49
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	10	2.5	0.70	
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	0.33	10	0.27	J
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-03D
 Client ID : MW-2A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P14
 Sample Amount : 1 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 09:35
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 02:19
 Dilution Factor : 10
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	25	7.0	U
75-34-3	1,1-Dichloroethane	ND	25	7.0	U
67-66-3	Chloroform	ND	25	7.0	U
56-23-5	Carbon tetrachloride	ND	5.0	1.3	U
78-87-5	1,2-Dichloropropane	ND	10	1.4	U
124-48-1	Dibromochloromethane	ND	5.0	1.5	U
79-00-5	1,1,2-Trichloroethane	ND	15	5.0	U
127-18-4	Tetrachloroethene	ND	5.0	1.8	U
108-90-7	Chlorobenzene	ND	25	7.0	U
75-69-4	Trichlorofluoromethane	ND	25	7.0	U
107-06-2	1,2-Dichloroethane	ND	5.0	1.3	U
71-55-6	1,1,1-Trichloroethane	ND	25	7.0	U
75-27-4	Bromodichloromethane	ND	5.0	1.9	U
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.6	U
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.4	U
75-25-2	Bromoform	ND	20	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.7	U
71-43-2	Benzene	ND	5.0	1.6	U
108-88-3	Toluene	ND	25	7.0	U
100-41-4	Ethylbenzene	ND	25	7.0	U
74-87-3	Chloromethane	ND	25	7.0	U
74-83-9	Bromomethane	ND	25	7.0	U
75-01-4	Vinyl chloride	100	10	0.71	
75-00-3	Chloroethane	ND	25	7.0	U
75-35-4	1,1-Dichloroethene	ND	5.0	1.7	U
156-60-5	trans-1,2-Dichloroethene	ND	25	7.0	U
79-01-6	Trichloroethene	730	5.0	1.8	



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-03D
 Client ID : MW-2A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P14
 Sample Amount : 1 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 09:35
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 02:19
 Dilution Factor : 10
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	25	7.0	U
541-73-1	1,3-Dichlorobenzene	ND	25	7.0	U
106-46-7	1,4-Dichlorobenzene	ND	25	7.0	U
1634-04-4	Methyl tert butyl ether	ND	25	7.0	U
179601-23-1	p/m-Xylene	ND	25	7.0	U
95-47-6	o-Xylene	ND	25	7.0	U
156-59-2	cis-1,2-Dichloroethene	950	25	7.0	
100-42-5	Styrene	ND	25	7.0	U
75-71-8	Dichlorodifluoromethane	ND	50	10.	U
67-64-1	Acetone	ND	50	15.	U
75-15-0	Carbon disulfide	ND	50	10.	U
78-93-3	2-Butanone	ND	50	19.	U
108-10-1	4-Methyl-2-pentanone	ND	50	10.	U
591-78-6	2-Hexanone	ND	50	10.	U
74-97-5	Bromochloromethane	ND	25	7.0	U
106-93-4	1,2-Dibromoethane	ND	20	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	25	7.0	U
98-82-8	Isopropylbenzene	ND	25	7.0	U
87-61-6	1,2,3-Trichlorobenzene	ND	25	7.0	U
120-82-1	1,2,4-Trichlorobenzene	ND	25	7.0	U
79-20-9	Methyl Acetate	ND	20	2.3	U
110-82-7	Cyclohexane	ND	100	2.7	U
123-91-1	1,4-Dioxane	ND	2500	610	U
76-13-1	Freon-113	ND	25	7.0	U
108-87-2	Methyl cyclohexane	ND	100	4.0	U



Form 1 VOA

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Lab ID : L1740446-04D2
Client ID : MW-3A
Sample Location : WHITEWALL, NY
Sample Matrix : WATER
Analytical Method : 1,8260C
Lab File ID : V05171109A12
Sample Amount : 0.4 ml
Level : LOW
Extract Volume (MeOH) : N/A

Lab Number : L1740446
Project Number : 06.6448
Date Collected : 11/02/17 11:55
Date Received : 11/03/17
Date Analyzed : 11/09/17 14:24
Dilution Factor : 25
Analyst : AD
Instrument ID : VOA105
GC Column : RTX-502.2
%Solids : N/A
Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-59-2	cis-1,2-Dichloroethene	1500	62	18.	



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-04D
 Client ID : MW-3A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P12
 Sample Amount : 2 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 11:55
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 01:29
 Dilution Factor : 5
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	12	3.5	U
75-34-3	1,1-Dichloroethane	ND	12	3.5	U
67-66-3	Chloroform	ND	12	3.5	U
56-23-5	Carbon tetrachloride	ND	2.5	0.67	U
78-87-5	1,2-Dichloropropane	ND	5.0	0.68	U
124-48-1	Dibromochloromethane	ND	2.5	0.74	U
79-00-5	1,1,2-Trichloroethane	ND	7.5	2.5	U
127-18-4	Tetrachloroethene	ND	2.5	0.90	U
108-90-7	Chlorobenzene	ND	12	3.5	U
75-69-4	Trichlorofluoromethane	ND	12	3.5	U
107-06-2	1,2-Dichloroethane	ND	2.5	0.66	U
71-55-6	1,1,1-Trichloroethane	ND	12	3.5	U
75-27-4	Bromodichloromethane	ND	2.5	0.96	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.82	U
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.72	U
75-25-2	Bromoform	ND	10	3.2	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.84	U
71-43-2	Benzene	ND	2.5	0.80	U
108-88-3	Toluene	ND	12	3.5	U
100-41-4	Ethylbenzene	ND	12	3.5	U
74-87-3	Chloromethane	ND	12	3.5	U
74-83-9	Bromomethane	ND	12	3.5	U
75-01-4	Vinyl chloride	520	5.0	0.36	
75-00-3	Chloroethane	ND	12	3.5	U
75-35-4	1,1-Dichloroethene	1.7	2.5	0.84	J
156-60-5	trans-1,2-Dichloroethene	ND	12	3.5	U
79-01-6	Trichloroethene	ND	2.5	0.88	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-04D
 Client ID : MW-3A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P12
 Sample Amount : 2 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 11:55
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 01:29
 Dilution Factor : 5
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	12	3.5	U
541-73-1	1,3-Dichlorobenzene	ND	12	3.5	U
106-46-7	1,4-Dichlorobenzene	ND	12	3.5	U
1634-04-4	Methyl tert butyl ether	ND	12	3.5	U
179601-23-1	p/m-Xylene	ND	12	3.5	U
95-47-6	o-Xylene	ND	12	3.5	U
156-59-2	cis-1,2-Dichloroethene	1700	12	3.5	E
100-42-5	Styrene	ND	12	3.5	U
75-71-8	Dichlorodifluoromethane	ND	25	5.0	U
67-64-1	Acetone	ND	25	7.3	U
75-15-0	Carbon disulfide	ND	25	5.0	U
78-93-3	2-Butanone	ND	25	9.7	U
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	U
591-78-6	2-Hexanone	ND	25	5.0	U
74-97-5	Bromochloromethane	ND	12	3.5	U
106-93-4	1,2-Dibromoethane	ND	10	3.2	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	3.5	U
98-82-8	Isopropylbenzene	ND	12	3.5	U
87-61-6	1,2,3-Trichlorobenzene	ND	12	3.5	U
120-82-1	1,2,4-Trichlorobenzene	ND	12	3.5	U
79-20-9	Methyl Acetate	ND	10	1.2	U
110-82-7	Cyclohexane	ND	50	1.4	U
123-91-1	1,4-Dioxane	ND	1200	300	U
76-13-1	Freon-113	ND	12	3.5	U
108-87-2	Methyl cyclohexane	ND	50	2.0	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-05D
 Client ID : BMW-15A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P10
 Sample Amount : 4 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 10:50
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 00:39
 Dilution Factor : 2.5
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	6.2	1.8	U
75-34-3	1,1-Dichloroethane	ND	6.2	1.8	U
67-66-3	Chloroform	ND	6.2	1.8	U
56-23-5	Carbon tetrachloride	ND	1.2	0.34	U
78-87-5	1,2-Dichloropropane	ND	2.5	0.34	U
124-48-1	Dibromochloromethane	ND	1.2	0.37	U
79-00-5	1,1,2-Trichloroethane	ND	3.8	1.2	U
127-18-4	Tetrachloroethene	ND	1.2	0.45	U
108-90-7	Chlorobenzene	ND	6.2	1.8	U
75-69-4	Trichlorofluoromethane	ND	6.2	1.8	U
107-06-2	1,2-Dichloroethane	ND	1.2	0.33	U
71-55-6	1,1,1-Trichloroethane	ND	6.2	1.8	U
75-27-4	Bromodichloromethane	ND	1.2	0.48	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.41	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.36	U
75-25-2	Bromoform	ND	5.0	1.6	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	0.42	U
71-43-2	Benzene	ND	1.2	0.40	U
108-88-3	Toluene	ND	6.2	1.8	U
100-41-4	Ethylbenzene	ND	6.2	1.8	U
74-87-3	Chloromethane	ND	6.2	1.8	U
74-83-9	Bromomethane	ND	6.2	1.8	U
75-01-4	Vinyl chloride	160	2.5	0.18	
75-00-3	Chloroethane	ND	6.2	1.8	U
75-35-4	1,1-Dichloroethene	1.1	1.2	0.42	J
156-60-5	trans-1,2-Dichloroethene	16	6.2	1.8	
79-01-6	Trichloroethene	2.3	1.2	0.44	



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-05D
 Client ID : BMW-15A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P10
 Sample Amount : 4 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 10:50
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 00:39
 Dilution Factor : 2.5
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	6.2	1.8	U
541-73-1	1,3-Dichlorobenzene	ND	6.2	1.8	U
106-46-7	1,4-Dichlorobenzene	ND	6.2	1.8	U
1634-04-4	Methyl tert butyl ether	ND	6.2	1.8	U
179601-23-1	p/m-Xylene	ND	6.2	1.8	U
95-47-6	o-Xylene	ND	6.2	1.8	U
156-59-2	cis-1,2-Dichloroethene	340	6.2	1.8	
100-42-5	Styrene	ND	6.2	1.8	U
75-71-8	Dichlorodifluoromethane	ND	12	2.5	U
67-64-1	Acetone	ND	12	3.6	U
75-15-0	Carbon disulfide	ND	12	2.5	U
78-93-3	2-Butanone	ND	12	4.8	U
108-10-1	4-Methyl-2-pentanone	ND	12	2.5	U
591-78-6	2-Hexanone	ND	12	2.5	U
74-97-5	Bromochloromethane	ND	6.2	1.8	U
106-93-4	1,2-Dibromoethane	ND	5.0	1.6	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.2	1.8	U
98-82-8	Isopropylbenzene	ND	6.2	1.8	U
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	1.8	U
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	1.8	U
79-20-9	Methyl Acetate	ND	5.0	0.58	U
110-82-7	Cyclohexane	ND	25	0.68	U
123-91-1	1,4-Dioxane	ND	620	150	U
76-13-1	Freon-113	ND	6.2	1.8	U
108-87-2	Methyl cyclohexane	ND	25	0.99	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-06D
 Client ID : BMW-14A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P13
 Sample Amount : 1 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 13:15
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 01:54
 Dilution Factor : 10
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	25	7.0	U
75-34-3	1,1-Dichloroethane	ND	25	7.0	U
67-66-3	Chloroform	ND	25	7.0	U
56-23-5	Carbon tetrachloride	ND	5.0	1.3	U
78-87-5	1,2-Dichloropropane	ND	10	1.4	U
124-48-1	Dibromochloromethane	ND	5.0	1.5	U
79-00-5	1,1,2-Trichloroethane	ND	15	5.0	U
127-18-4	Tetrachloroethene	ND	5.0	1.8	U
108-90-7	Chlorobenzene	ND	25	7.0	U
75-69-4	Trichlorofluoromethane	ND	25	7.0	U
107-06-2	1,2-Dichloroethane	ND	5.0	1.3	U
71-55-6	1,1,1-Trichloroethane	ND	25	7.0	U
75-27-4	Bromodichloromethane	ND	5.0	1.9	U
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.6	U
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.4	U
75-25-2	Bromoform	ND	20	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.7	U
71-43-2	Benzene	ND	5.0	1.6	U
108-88-3	Toluene	ND	25	7.0	U
100-41-4	Ethylbenzene	ND	25	7.0	U
74-87-3	Chloromethane	ND	25	7.0	U
74-83-9	Bromomethane	ND	25	7.0	U
75-01-4	Vinyl chloride	34	10	0.71	
75-00-3	Chloroethane	ND	25	7.0	U
75-35-4	1,1-Dichloroethene	ND	5.0	1.7	U
156-60-5	trans-1,2-Dichloroethene	7.0	25	7.0	J
79-01-6	Trichloroethene	ND	5.0	1.8	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-06D
 Client ID : BMW-14A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P13
 Sample Amount : 1 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 13:15
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 01:54
 Dilution Factor : 10
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	25	7.0	U
541-73-1	1,3-Dichlorobenzene	ND	25	7.0	U
106-46-7	1,4-Dichlorobenzene	ND	25	7.0	U
1634-04-4	Methyl tert butyl ether	ND	25	7.0	U
179601-23-1	p/m-Xylene	ND	25	7.0	U
95-47-6	o-Xylene	ND	25	7.0	U
156-59-2	cis-1,2-Dichloroethene	820	25	7.0	
100-42-5	Styrene	ND	25	7.0	U
75-71-8	Dichlorodifluoromethane	ND	50	10.	U
67-64-1	Acetone	ND	50	15.	U
75-15-0	Carbon disulfide	ND	50	10.	U
78-93-3	2-Butanone	ND	50	19.	U
108-10-1	4-Methyl-2-pentanone	ND	50	10.	U
591-78-6	2-Hexanone	ND	50	10.	U
74-97-5	Bromochloromethane	ND	25	7.0	U
106-93-4	1,2-Dibromoethane	ND	20	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	25	7.0	U
98-82-8	Isopropylbenzene	ND	25	7.0	U
87-61-6	1,2,3-Trichlorobenzene	ND	25	7.0	U
120-82-1	1,2,4-Trichlorobenzene	ND	25	7.0	U
79-20-9	Methyl Acetate	ND	20	2.3	U
110-82-7	Cyclohexane	ND	100	2.7	U
123-91-1	1,4-Dioxane	ND	2500	610	U
76-13-1	Freon-113	ND	25	7.0	U
108-87-2	Methyl cyclohexane	ND	100	4.0	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-07D
 Client ID : FD01-20171103
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P11
 Sample Amount : 4 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 00:00
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 01:04
 Dilution Factor : 2.5
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	6.2	1.8	U
75-34-3	1,1-Dichloroethane	ND	6.2	1.8	U
67-66-3	Chloroform	ND	6.2	1.8	U
56-23-5	Carbon tetrachloride	ND	1.2	0.34	U
78-87-5	1,2-Dichloropropane	ND	2.5	0.34	U
124-48-1	Dibromochloromethane	ND	1.2	0.37	U
79-00-5	1,1,2-Trichloroethane	ND	3.8	1.2	U
127-18-4	Tetrachloroethene	ND	1.2	0.45	U
108-90-7	Chlorobenzene	ND	6.2	1.8	U
75-69-4	Trichlorofluoromethane	ND	6.2	1.8	U
107-06-2	1,2-Dichloroethane	ND	1.2	0.33	U
71-55-6	1,1,1-Trichloroethane	ND	6.2	1.8	U
75-27-4	Bromodichloromethane	ND	1.2	0.48	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.41	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.36	U
75-25-2	Bromoform	ND	5.0	1.6	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	0.42	U
71-43-2	Benzene	ND	1.2	0.40	U
108-88-3	Toluene	ND	6.2	1.8	U
100-41-4	Ethylbenzene	ND	6.2	1.8	U
74-87-3	Chloromethane	ND	6.2	1.8	U
74-83-9	Bromomethane	ND	6.2	1.8	U
75-01-4	Vinyl chloride	180	2.5	0.18	
75-00-3	Chloroethane	ND	6.2	1.8	U
75-35-4	1,1-Dichloroethene	1.2	1.2	0.42	
156-60-5	trans-1,2-Dichloroethene	17	6.2	1.8	
79-01-6	Trichloroethene	2.1	1.2	0.44	



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-07D
 Client ID : FD01-20171103
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P11
 Sample Amount : 4 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 00:00
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 01:04
 Dilution Factor : 2.5
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	6.2	1.8	U
541-73-1	1,3-Dichlorobenzene	ND	6.2	1.8	U
106-46-7	1,4-Dichlorobenzene	ND	6.2	1.8	U
1634-04-4	Methyl tert butyl ether	ND	6.2	1.8	U
179601-23-1	p/m-Xylene	ND	6.2	1.8	U
95-47-6	o-Xylene	ND	6.2	1.8	U
156-59-2	cis-1,2-Dichloroethene	390	6.2	1.8	
100-42-5	Styrene	ND	6.2	1.8	U
75-71-8	Dichlorodifluoromethane	ND	12	2.5	U
67-64-1	Acetone	ND	12	3.6	U
75-15-0	Carbon disulfide	ND	12	2.5	U
78-93-3	2-Butanone	ND	12	4.8	U
108-10-1	4-Methyl-2-pentanone	ND	12	2.5	U
591-78-6	2-Hexanone	ND	12	2.5	U
74-97-5	Bromochloromethane	ND	6.2	1.8	U
106-93-4	1,2-Dibromoethane	ND	5.0	1.6	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.2	1.8	U
98-82-8	Isopropylbenzene	ND	6.2	1.8	U
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	1.8	U
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	1.8	U
79-20-9	Methyl Acetate	ND	5.0	0.58	U
110-82-7	Cyclohexane	ND	25	0.68	U
123-91-1	1,4-Dioxane	ND	620	150	U
76-13-1	Freon-113	ND	6.2	1.8	U
108-87-2	Methyl cyclohexane	ND	25	0.99	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-08
 Client ID : BMW-18A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P09
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 14:20
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 00:14
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	0.16	1.0	0.07	J
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-08
 Client ID : BMW-18A
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P09
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 14:20
 Date Received : 11/03/17
 Date Analyzed : 11/09/17 00:14
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	1.4	2.5	0.70	J
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-09
 Client ID : TRIP BLANK
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P06
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 00:00
 Date Received : 11/03/17
 Date Analyzed : 11/08/17 22:58
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740446-09
 Client ID : TRIP BLANK
 Sample Location : WHITEWALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P06
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : 11/02/17 00:00
 Date Received : 11/03/17
 Date Analyzed : 11/08/17 22:58
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : WG1061312-5
 Client ID : WG1061312-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/08/17 22:33
 Dilution Factor : 1
 Analyst : AD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : WG1061312-5
 Client ID : WG1061312-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171108P05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/08/17 22:33
 Dilution Factor : 1
 Analyst : AD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : WG1061312-12
 Client ID : WG1061312-12BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171109A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/09/17 09:24
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : WG1061312-12
 Client ID : WG1061312-12BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V05171109A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740446
 Project Number : 06.6448
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/09/17 09:24
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA105
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P06.d
 Acq On : 8 Nov 2017 10:58 pm
 Operator : VOA105:PD
 Sample : 11740446-09,31,10,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 09 07:14:21 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.212	96	985845	10.000	ug/L	0.00	
Standard Area 1 = 1085488			Recovery =	90.82%			
59) Chlorobenzene-d5	9.764	117	687867	10.000	ug/L	0.00	
Standard Area 1 = 758413			Recovery =	90.70%			
79) 1,4-Dichlorobenzene-d4	12.419	152	303423	10.000	ug/L	0.00	
Standard Area 1 = 355962			Recovery =	85.24%			
System Monitoring Compounds							
36) Dibromofluoromethane	5.410	113	229921	8.191	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	81.91%			
43) 1,2-Dichloroethane-d4	5.938	65	256427	8.299	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	82.99%			
60) Toluene-d8	7.904	98	901349	10.221	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.21%			
83) 4-Bromofluorobenzene	11.224	95	305580	11.992	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	119.92%			
Target Compounds							
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	1.938	50	2839M2	0.204	ug/L		
4) Vinyl chloride	0.000		0		N.D.		
5) Bromomethane	2.398	94	105		N.D.		
6) Chloroethane	0.000		0		N.D. d		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	3.151	76	2555	0.070	ug/L #	72	
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	3.689	84	3542	0.224	ug/L	95	
17) Acetone	3.748	43	2825	1.158	ug/L	99	
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	0.000		0		N.D. d		
20) Methyl tert-butyl ether	0.000		0		N.D.		
23) 1,1-Dichloroethane	0.000		0		N.D.		
28) cis-1,2-Dichloroethene	0.000		0		N.D.		
30) Bromochloromethane	0.000		0		N.D.		
31) Cyclohexane	0.000		0		N.D.		
32) Chloroform	5.224	83	529		N.D.		
34) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P06.d
 Acq On : 8 Nov 2017 10:58 pm
 Operator : VOA105:PD
 Sample : 11740446-09,31,10,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 09 07:14:21 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	5.792	78	228		N.D.	
44) 1,2-Dichloroethane	6.007	62	634		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.973	92	537		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	9.784	112	110		N.D.	
74) Ethylbenzene	9.813	91	310		N.D.	
76) p/m Xylene	10.000	106	221		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	d
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.341	146	380		N.D.	
101) 1,4-Dichlorobenzene	12.429	146	651		N.D.	
104) 1,2-Dichlorobenzene	12.860	146	265		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	14.251	180	646		N.D.	
111) 1,2,3-Trichlorobenzene	14.711	180	856	0.153	ug/L	# 86

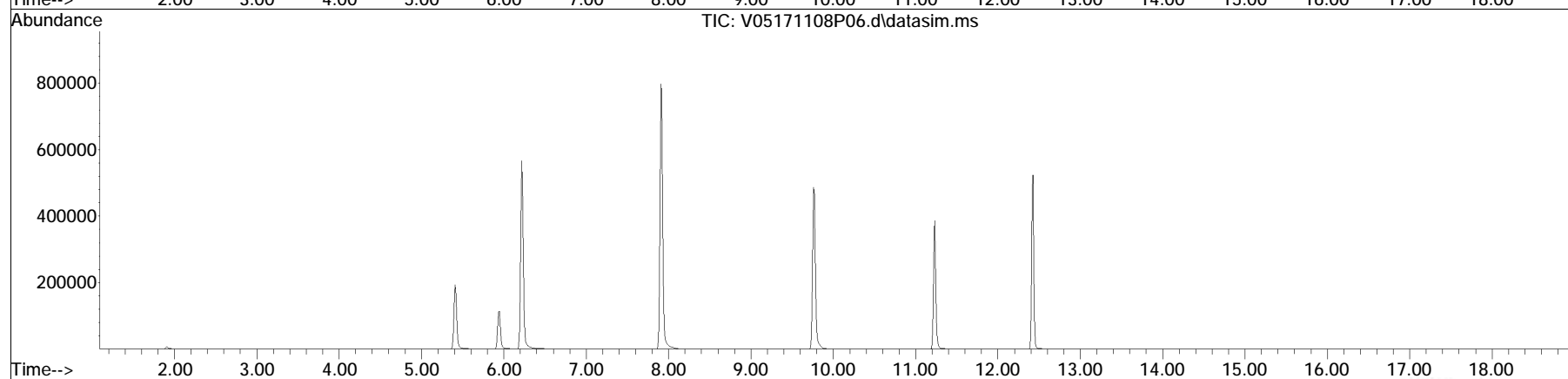
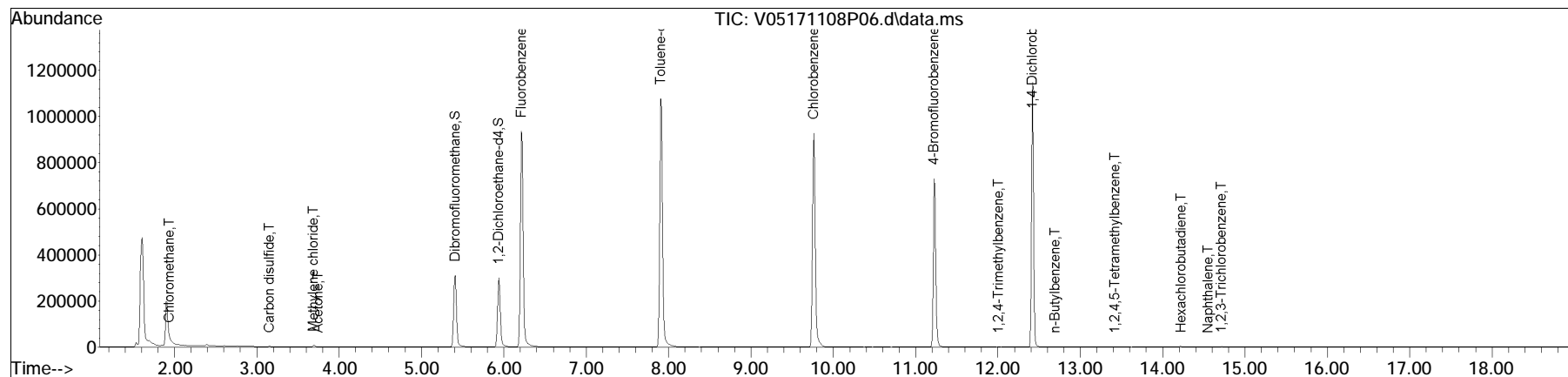
(#) = qualifier out of range (m) = manual integration (+) = signals summed

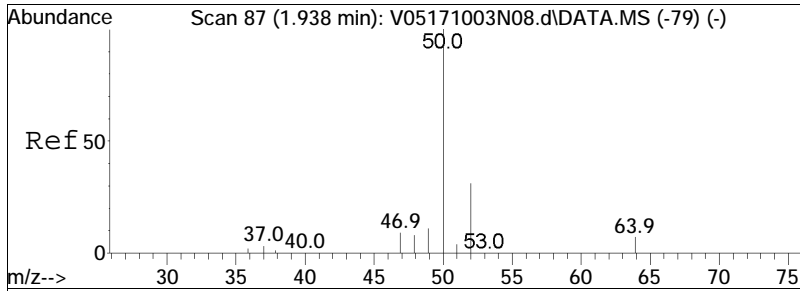
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P06.d
 Acq On : 8 Nov 2017 10:58 pm
 Operator : VOA105:PD
 Sample : 11740446-09,31,10,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 09 07:14:21 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

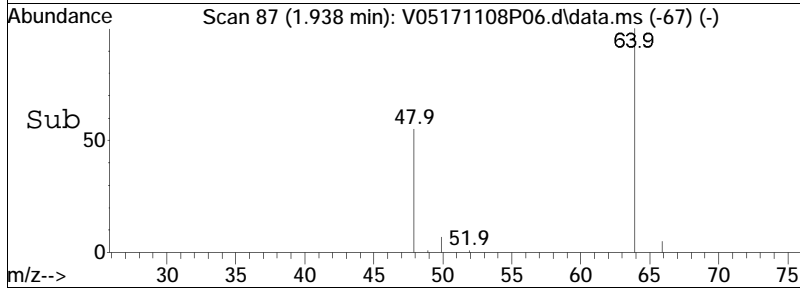
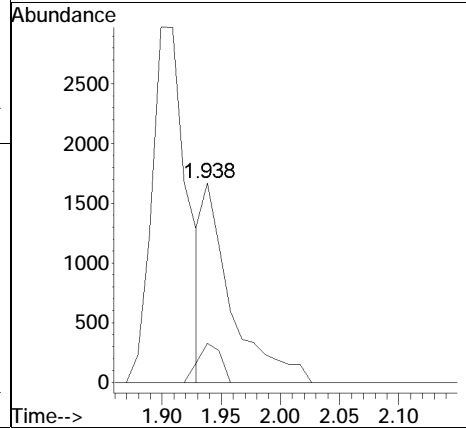
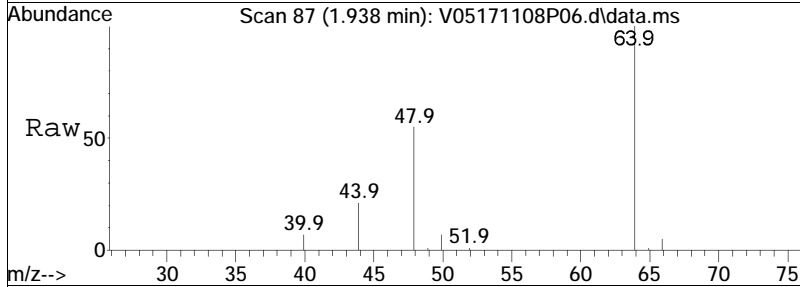
Sub List : 8260-Curve - Megamix plus Diox71108P\V05171108P01.d•

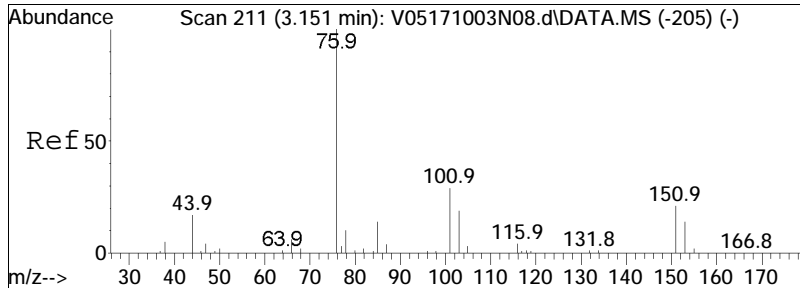




#3
 Chloromethane
 Concen: 0.20 ug/L M2
 RT: 1.938 min Scan# 87
 Delta R.T. -0.000 min
 Lab File: V05171108P06.d
 Acq: 8 Nov 2017 10:58 pm

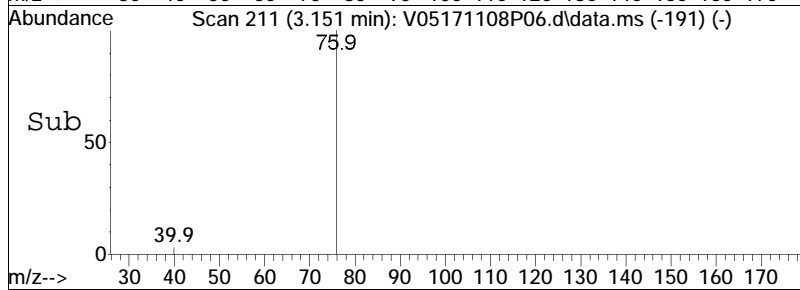
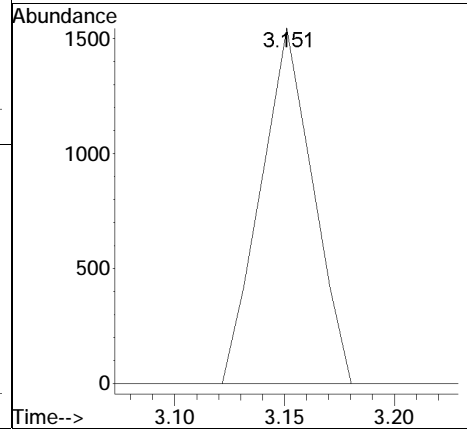
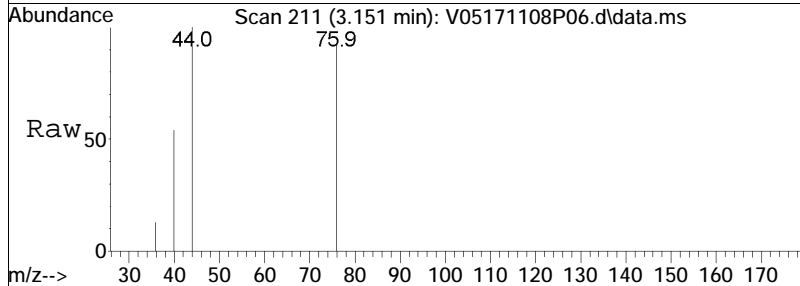
Tgt Ion	Resp	Lower	Upper
50	100		
52	15.5	11.4	51.4
47	0.0	0.0	28.0

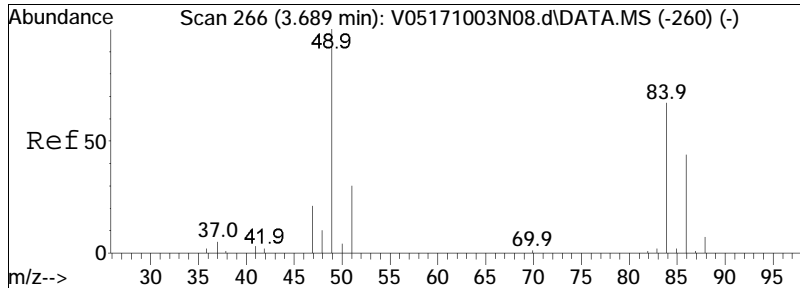




#11
 Carbon disulfide
 Concen: 0.07 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: V05171108P06.d
 Acq: 8 Nov 2017 10:58 pm

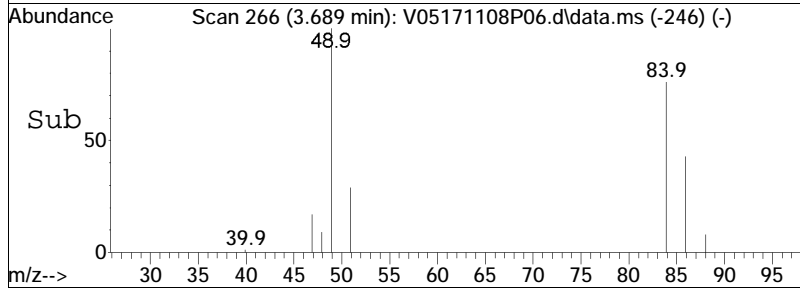
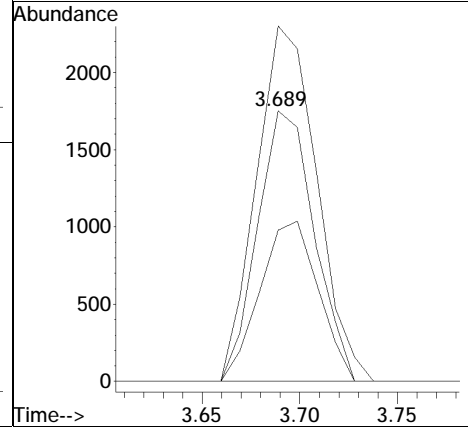
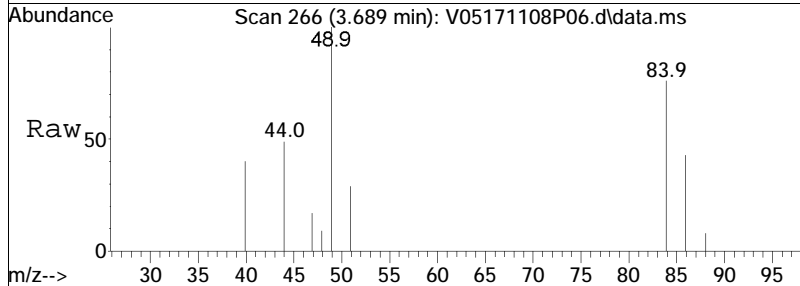
Tgt Ion	Resp	Lower	Upper
76	100		
78	0.0	6.7	13.9#

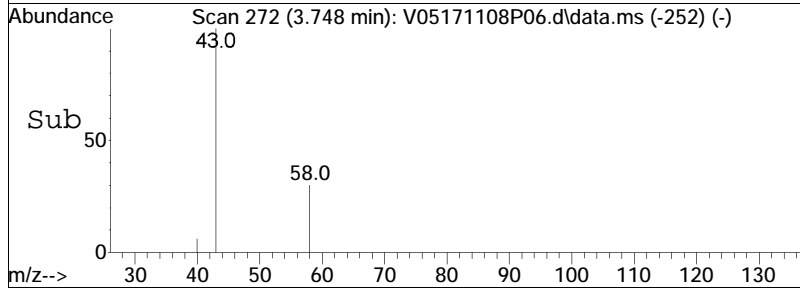
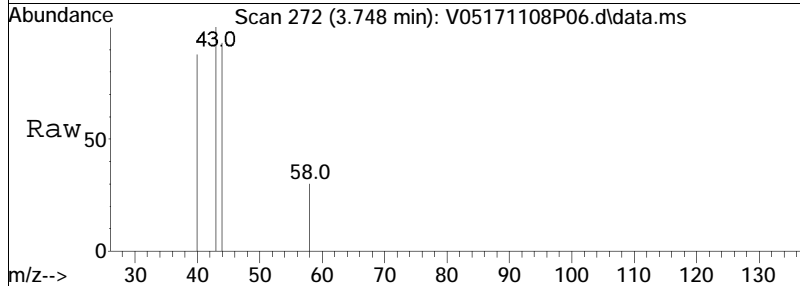
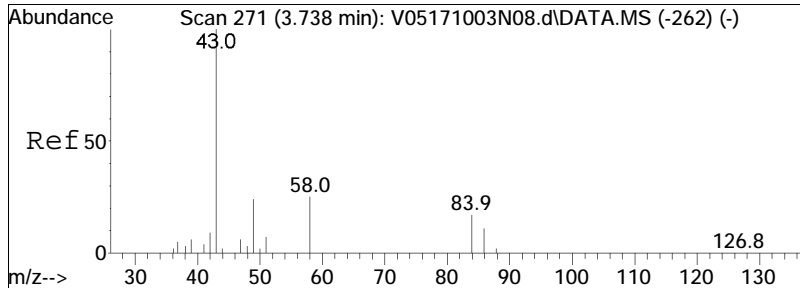




#15
 Methylene chloride
 Concen: 0.22 ug/L
 RT: 3.689 min Scan# 266
 Delta R.T. -0.000 min
 Lab File: V05171108P06.d
 Acq: 8 Nov 2017 10:58 pm

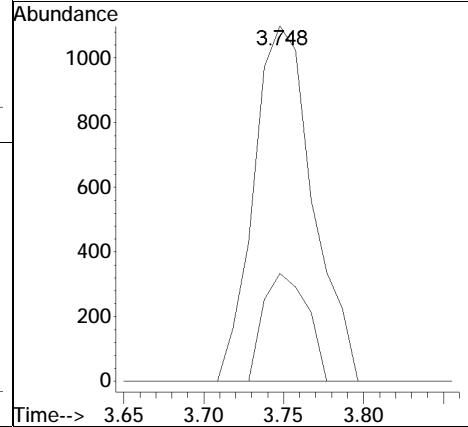
Tgt Ion:	84	Resp:	3542
Ion Ratio	Lower	Upper	
84	100		
86	60.9	41.9	86.9
49	139.7	95.1	197.5

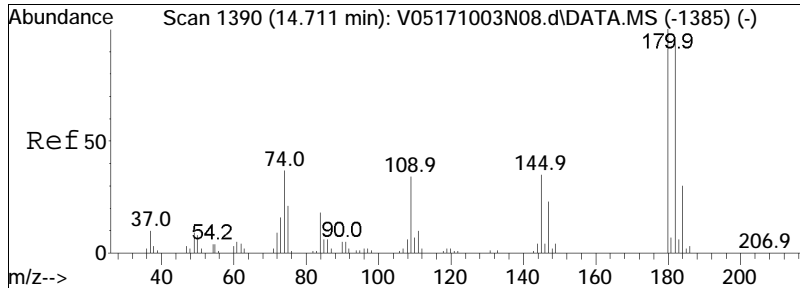




#17
 Acetone
 Concen: 1.16 ug/L
 RT: 3.748 min Scan# 272
 Delta R.T. -0.000 min
 Lab File: V05171108P06.d
 Acq: 8 Nov 2017 10:58 pm

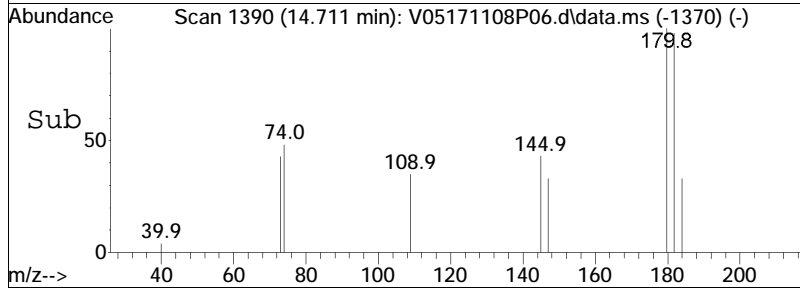
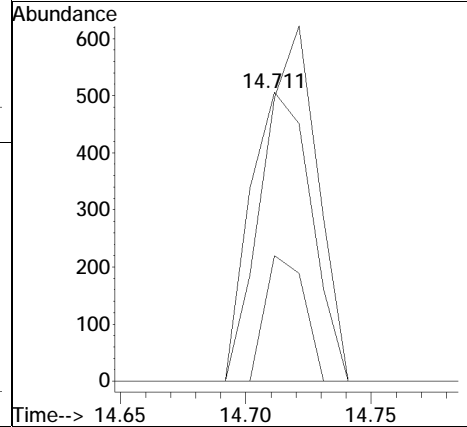
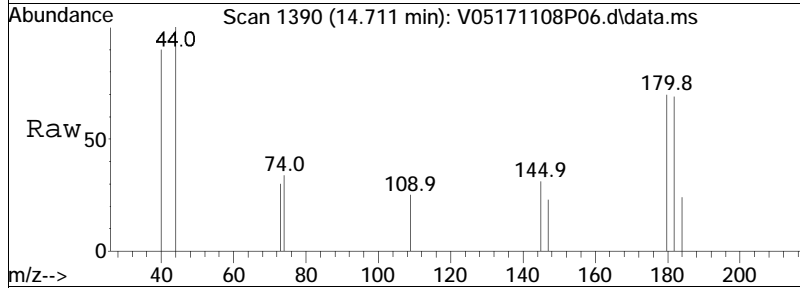
Tgt Ion:	43	Resp:	2825
Ion Ratio	100	Lower	Upper
58	22.7	18.5	27.7





#111
 1,2,3-Trichlorobenzene
 Concen: 0.15 ug/L
 RT: 14.711 min Scan# 1390
 Delta R.T. -0.000 min
 Lab File: V05171108P06.d
 Acq: 8 Nov 2017 10:58 pm

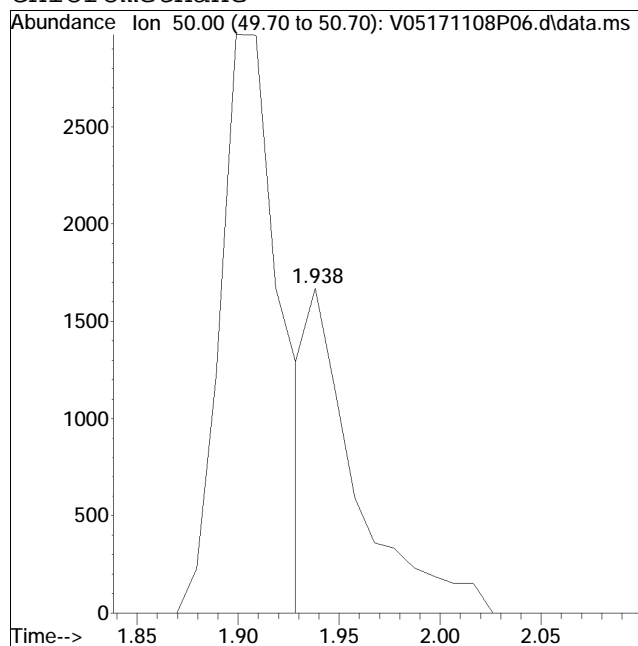
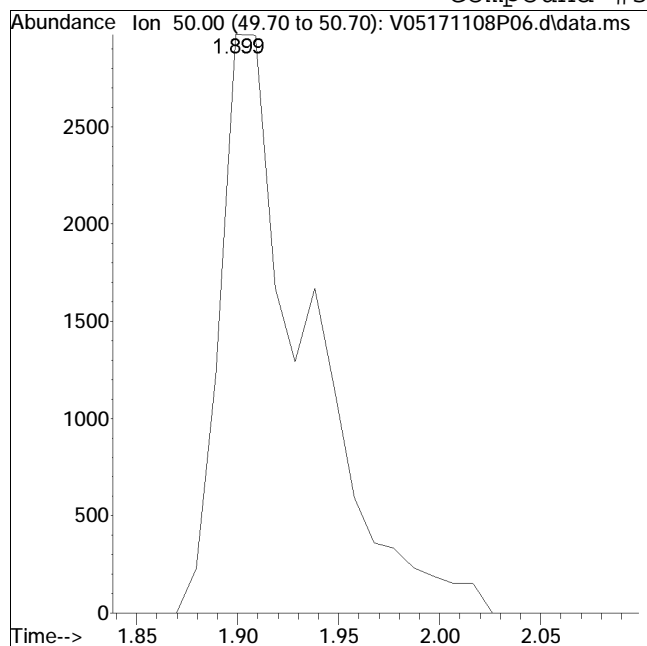
Tgt Ion	Resp	Lower	Upper
180	100		
182	109.1	76.2	114.2
145	28.0	28.2	42.2#



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171108P06.d Operator : VOA105:PD
Date Inj'd : 11/8/2017 10:58 pm Instrument : VOA 105
Sample : 11740446-09,31,10,10,,a Quant Date : 11/9/2017 7:11 am

Compound #3: Chloromethane



Original Peak Response = 8925

Manual Peak Response = 2839 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P07.d
 Acq On : 8 Nov 2017 11:23 pm
 Operator : VOA105:PD
 Sample : 11740446-01,31,10,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 09 07:14:58 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.212	96	970260	10.000	ug/L	0.00	
Standard Area 1 = 1085488			Recovery =	89.38%			
59) Chlorobenzene-d5	9.765	117	679591	10.000	ug/L	0.00	
Standard Area 1 = 758413			Recovery =	89.61%			
79) 1,4-Dichlorobenzene-d4	12.419	152	306531	10.000	ug/L	0.00	
Standard Area 1 = 355962			Recovery =	86.11%			
System Monitoring Compounds							
36) Dibromofluoromethane	5.410	113	231759	8.389	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	83.89%			
43) 1,2-Dichloroethane-d4	5.939	65	260557	8.568	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	85.68%			
60) Toluene-d8	7.905	98	887567	10.188	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.88%			
83) 4-Bromofluorobenzene	11.224	95	304738	11.838	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	118.38%			
Target Compounds							
2) Dichlorodifluoromethane	0.000		0		N.D.		Qvalue
3) Chloromethane	1.938	50	7246	0.528	ug/L	85	
4) Vinyl chloride	2.026	62	153267	12.052	ug/L	82	
5) Bromomethane	2.359	94	106		N.D.		
6) Chloroethane	0.000		0		N.D. d		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	3.151	76	2766	0.077	ug/L #	82	
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	3.699	84	885		N.D.		
17) Acetone	3.748	43	1299	0.541	ug/L #	67	
18) trans-1,2-Dichloroethene	3.845	96	196		N.D.		
19) Methyl acetate	0.000		0		N.D. d		
20) Methyl tert-butyl ether	3.934	73	2556	0.099	ug/L	99	
23) 1,1-Dichloroethane	0.000		0		N.D.		
28) cis-1,2-Dichloroethene	4.961	96	6098	0.349	ug/L	98	
30) Bromochloromethane	0.000		0		N.D.		
31) Cyclohexane	0.000		0		N.D.		
32) Chloroform	0.000		0		N.D.		
34) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P07.d
 Acq On : 8 Nov 2017 11:23 pm
 Operator : VOA105:PD
 Sample : 11740446-01,31,10,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 09 07:14:58 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	5.802	78	627		N.D.	
44) 1,2-Dichloroethane	6.007	62	689		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.398	95	348		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.973	92	396		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.814	91	374		N.D.	
76) p/m Xylene	10.019	106	95		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.351	146	325		N.D.	
101) 1,4-Dichlorobenzene	12.439	146	547		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	14.261	180	402		N.D.	
111) 1,2,3-Trichlorobenzene	14.721	180	489	0.087	ug/L #	65

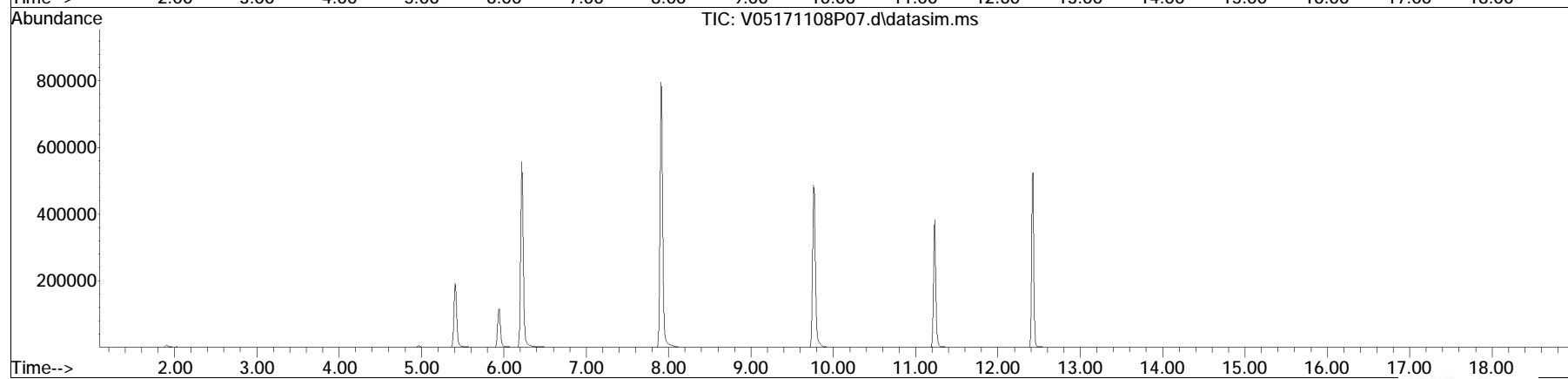
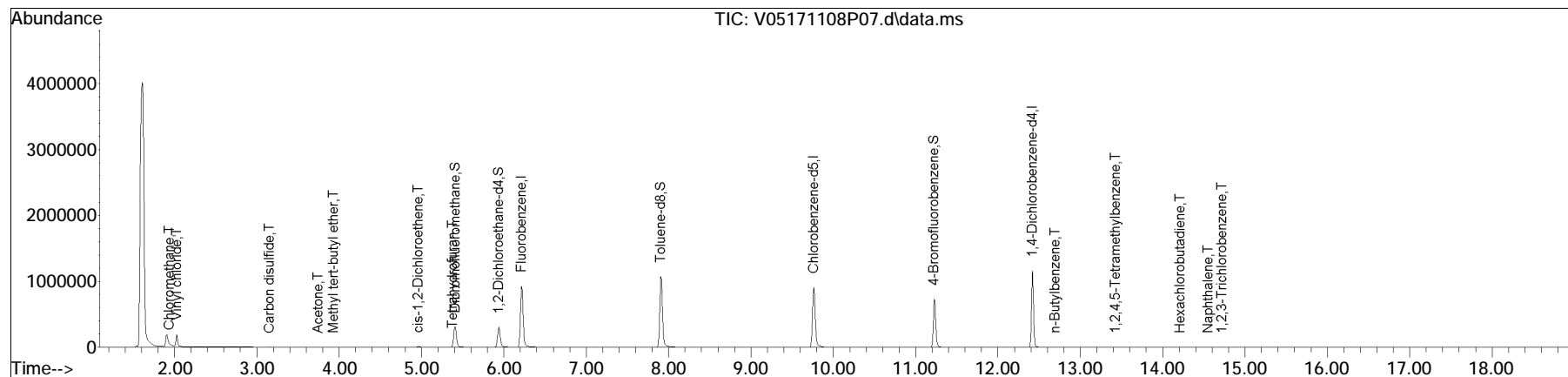
(#) = qualifier out of range (m) = manual integration (+) = signals summed

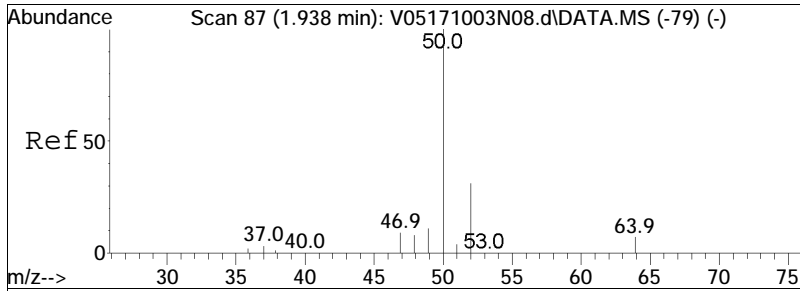
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P07.d
 Acq On : 8 Nov 2017 11:23 pm
 Operator : VOA105:PD
 Sample : 11740446-01,31,10,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 09 07:14:58 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

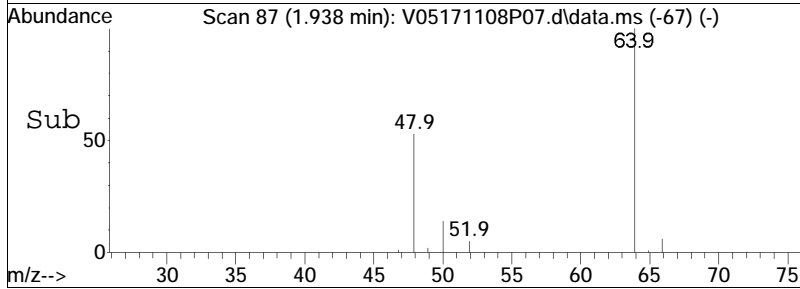
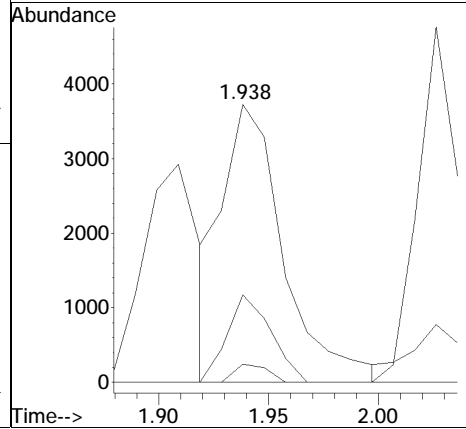
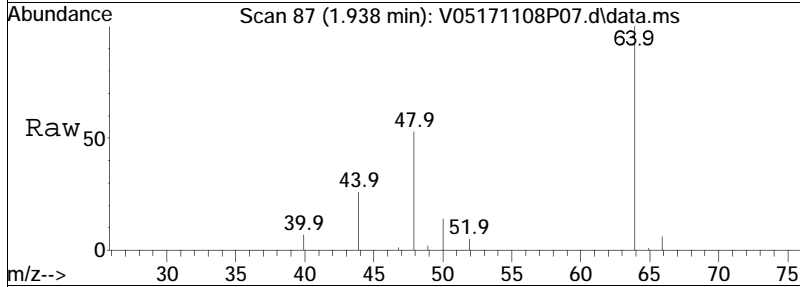
Sub List : 8260-Curve - Megamix plus Diox71108P\V05171108P01.d•

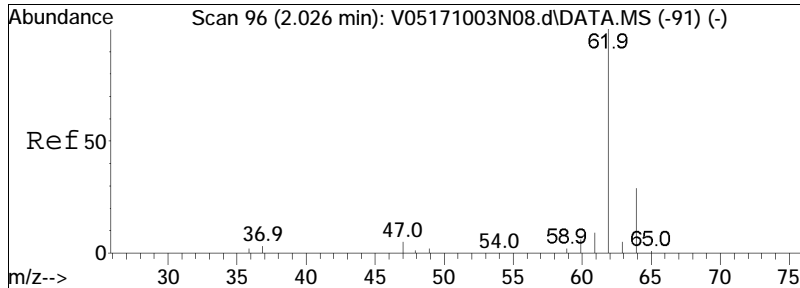




#3
 Chloromethane
 Concen: 0.53 ug/L
 RT: 1.938 min Scan# 87
 Delta R.T. -0.000 min
 Lab File: V05171108P07.d
 Acq: 8 Nov 2017 11:23 pm

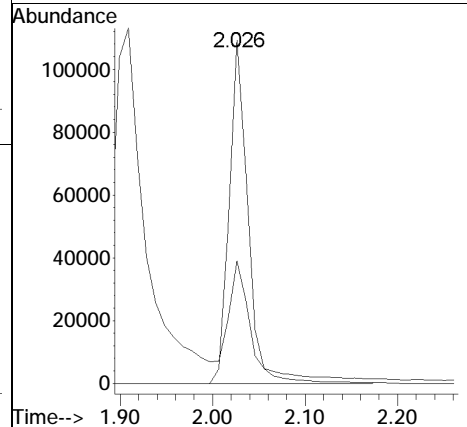
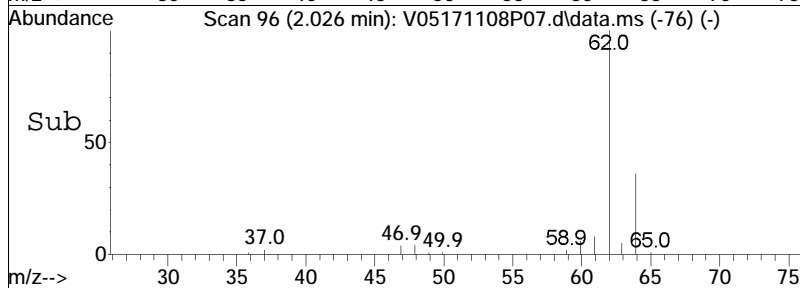
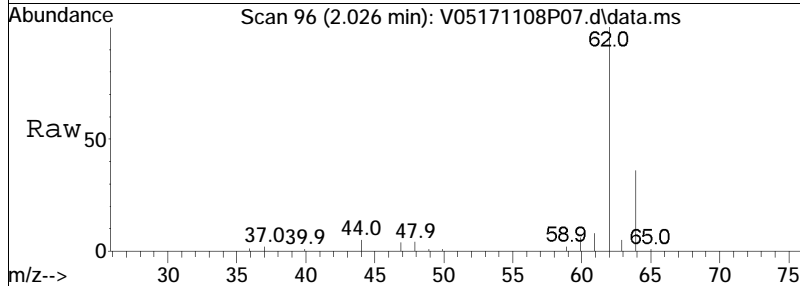
Tgt Ion	Ratio	Lower	Upper
50	100		
52	22.6	11.4	51.4
47	3.6	0.0	28.0

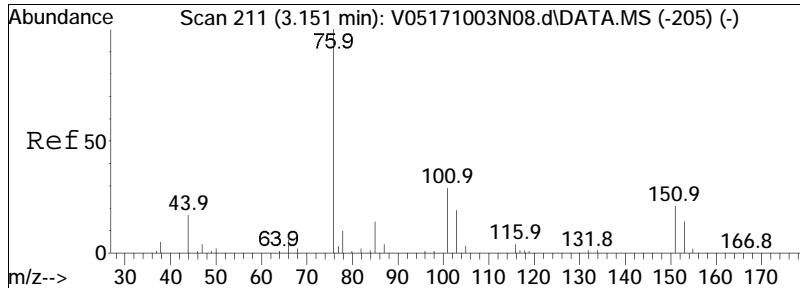




#4
 Vinyl chloride
 Concen: 12.05 ug/L
 RT: 2.026 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V05171108P07.d
 Acq: 8 Nov 2017 11:23 pm

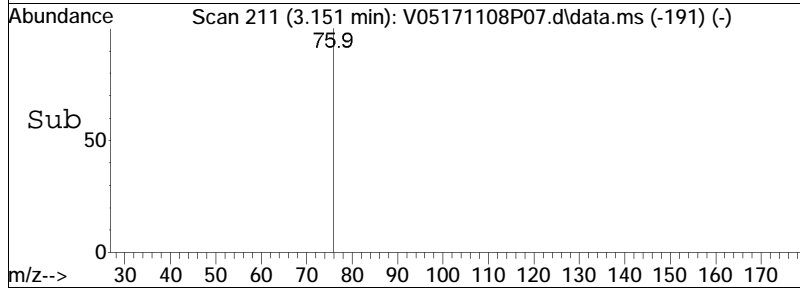
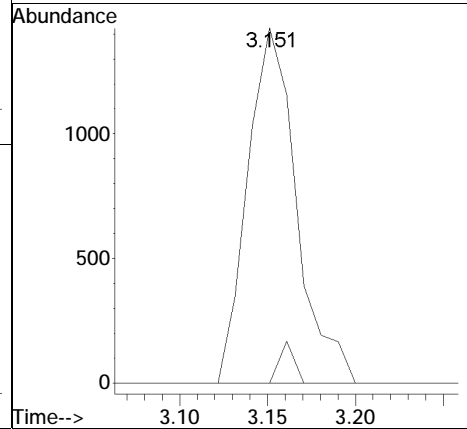
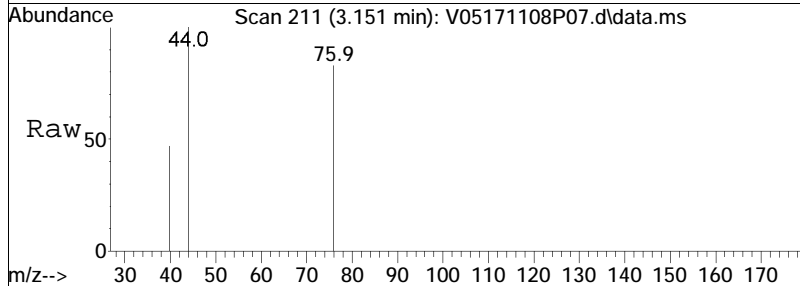
Tgt Ion: 62 Resp: 153267
 Ion Ratio Lower Upper
 62 100
 64 44.1 13.8 53.8

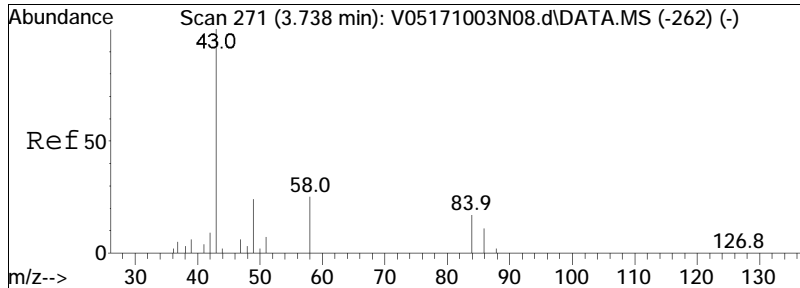




#11
 Carbon disulfide
 Concen: 0.08 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: V05171108P07.d
 Acq: 8 Nov 2017 11:23 pm

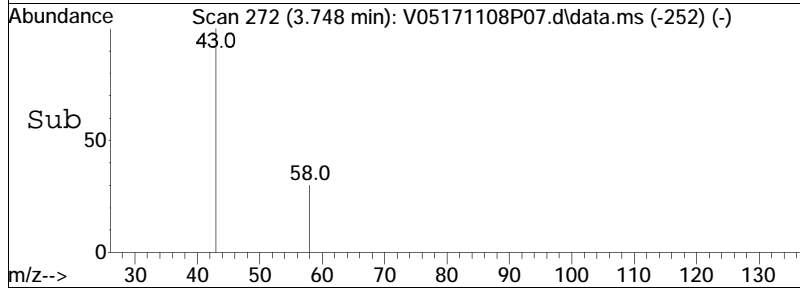
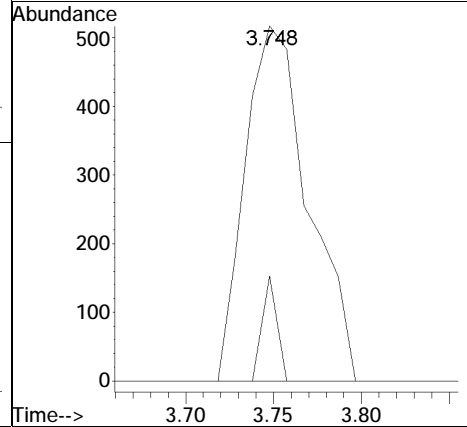
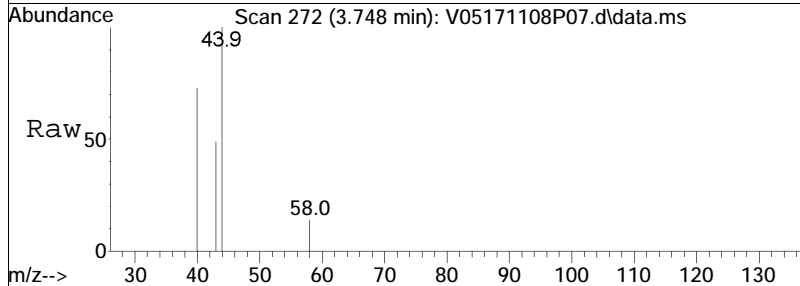
Tgt Ion	Resp	Lower	Upper
76	100		
78	3.6	6.7	13.9#

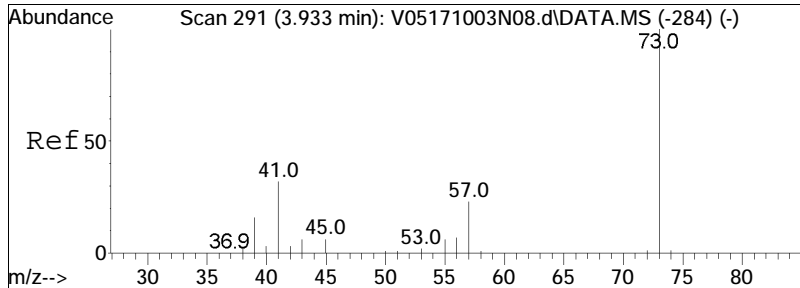




#17
 Acetone
 Concen: 0.54 ug/L
 RT: 3.748 min Scan# 272
 Delta R.T. -0.000 min
 Lab File: V05171108P07.d
 Acq: 8 Nov 2017 11:23 pm

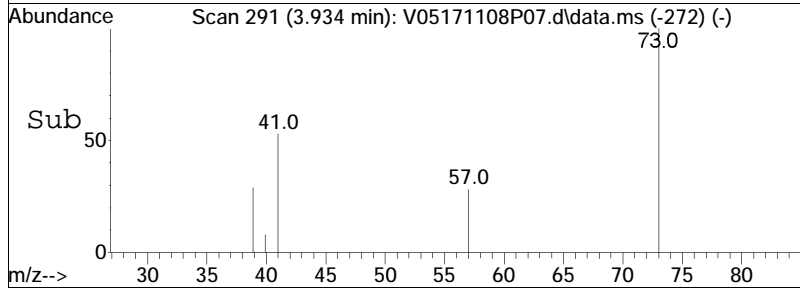
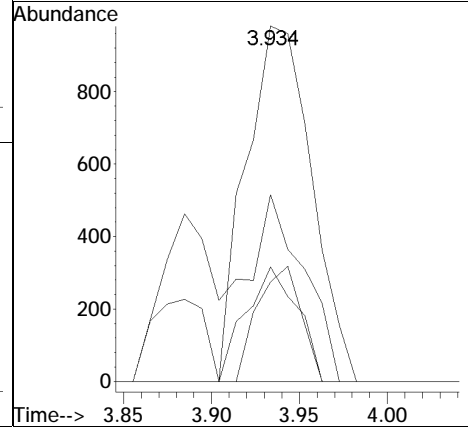
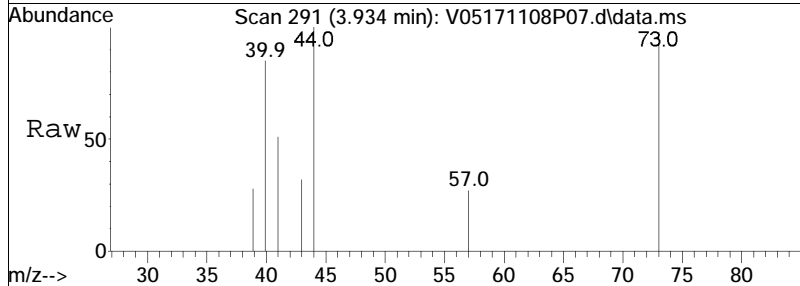
Tgt Ion	Resp	Lower	Upper
43	100		
58	6.9	18.5	27.7#

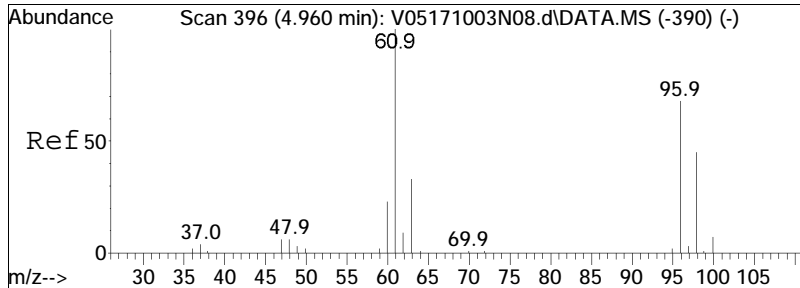




#20
 Methyl tert-butyl ether
 Concen: 0.10 ug/L
 RT: 3.934 min Scan# 291
 Delta R.T. -0.010 min
 Lab File: V05171108P07.d
 Acq: 8 Nov 2017 11:23 pm

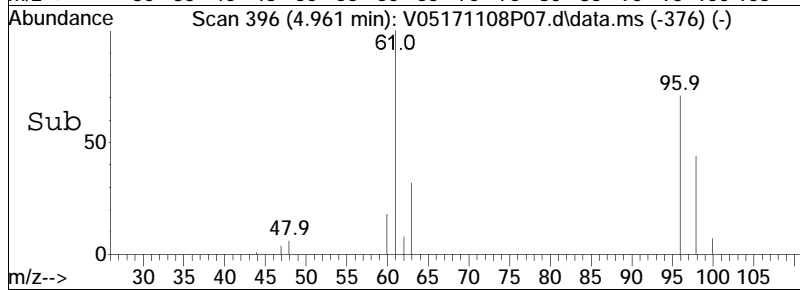
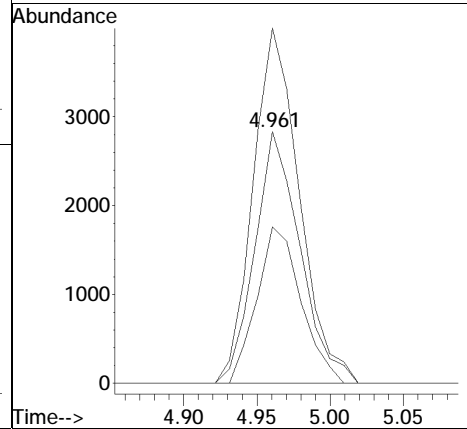
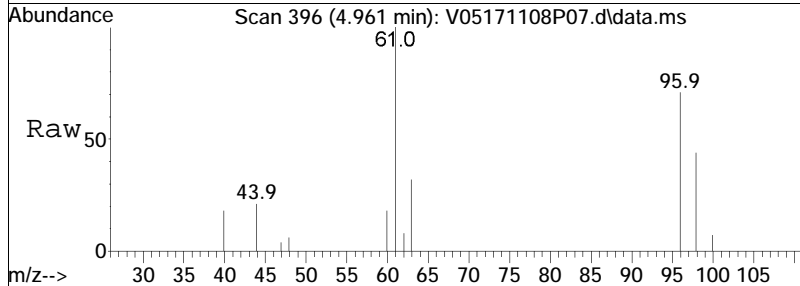
Tgt Ion	Resp	Lower	Upper
73	2556		
57	21.6	14.3	29.7
43	25.4	16.8	35.0
41	32.3	20.9	43.3

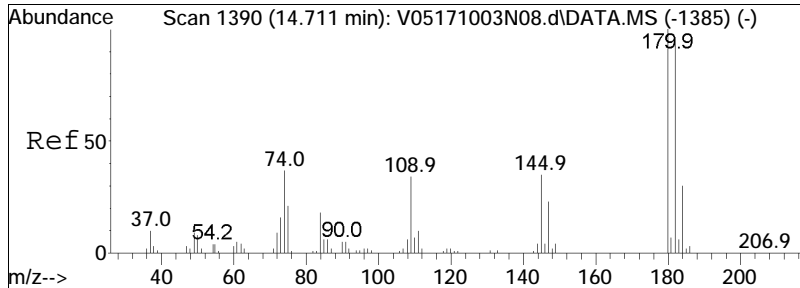




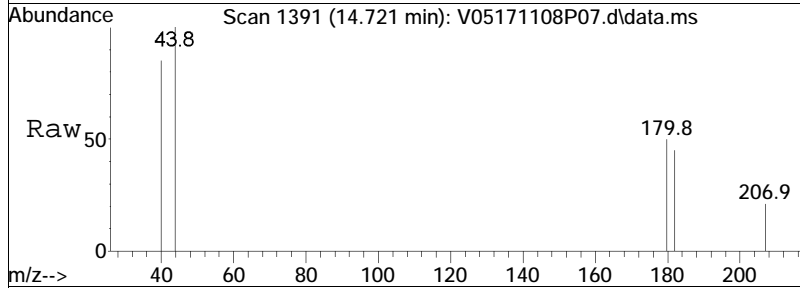
#28
 cis-1,2-Dichloroethene
 Concen: 0.35 ug/L
 RT: 4.961 min Scan# 396
 Delta R.T. -0.000 min
 Lab File: V05171108P07.d
 Acq: 8 Nov 2017 11:23 pm

Tgt Ion	Resp	Lower	Upper
96	100		
61	144.2	113.7	170.5
98	60.7	51.2	76.8

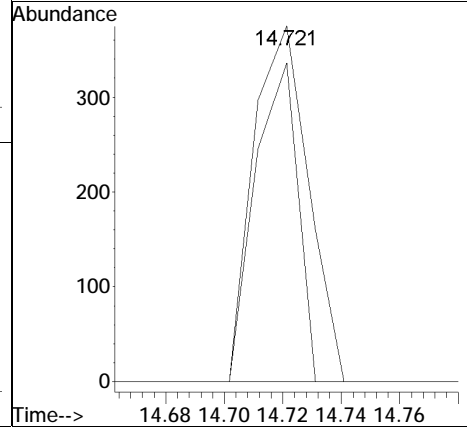
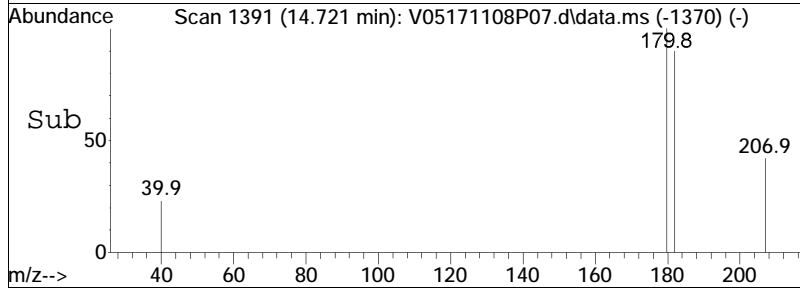




#111
 1,2,3-Trichlorobenzene
 Concen: 0.09 ug/L
 RT: 14.721 min Scan# 1391
 Delta R.T. 0.010 min
 Lab File: V05171108P07.d
 Acq: 8 Nov 2017 11:23 pm



Tgt Ion	Ratio	Lower	Upper
180	100		
182	69.9	76.2	114.2#
145	0.0	28.2	42.2#



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171108P07.d Operator : VOA105:PD
Date Inj'd : 11/8/2017 11:23 pm Instrument : VOA 105
Sample : 11740446-01,31,10,10,,a Quant Date : 11/9/2017 7:11 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P08.d
 Acq On : 8 Nov 2017 11:49 pm
 Operator : VOA105:PD
 Sample : 11740446-02,31,10,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 09 07:15:48 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.212	96	945552	10.000	ug/L	0.00	
Standard Area 1 = 1085488			Recovery =	87.11%			
59) Chlorobenzene-d5	9.765	117	666588	10.000	ug/L	0.00	
Standard Area 1 = 758413			Recovery =	87.89%			
79) 1,4-Dichlorobenzene-d4	12.419	152	303184	10.000	ug/L	0.00	
Standard Area 1 = 355962			Recovery =	85.17%			
System Monitoring Compounds							
36) Dibromofluoromethane	5.410	113	228863	8.501	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	85.01%			
43) 1,2-Dichloroethane-d4	5.939	65	256979	8.671	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	86.71%			
60) Toluene-d8	7.905	98	859650	10.060	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.60%			
83) 4-Bromofluorobenzene	11.224	95	294947	11.584	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	115.84%			
Target Compounds							
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	1.938	50	3795M2	0.284	ug/L		
4) Vinyl chloride	2.026	62	404379	32.628	ug/L		95
5) Bromomethane	2.359	94	181		N.D.		
6) Chloroethane	0.000		0		N.D. d		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	3.122	96	755		N.D.		
11) Carbon disulfide	3.151	76	2853	0.082	ug/L #		72
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	3.689	84	800		N.D.		
17) Acetone	0.000		0		N.D. d		
18) trans-1,2-Dichloroethene	3.855	96	333		N.D.		
19) Methyl acetate	0.000		0		N.D. d		
20) Methyl tert-butyl ether	3.943	73	1975	0.078	ug/L #		91
23) 1,1-Dichloroethane	0.000		0		N.D.		
28) cis-1,2-Dichloroethene	4.961	96	174156	10.231	ug/L		100
30) Bromochloromethane	0.000		0		N.D.		
31) Cyclohexane	5.156	56	324	0.333	ug/L #		49
32) Chloroform	0.000		0		N.D.		
34) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P08.d
 Acq On : 8 Nov 2017 11:49 pm
 Operator : VOA105:PD
 Sample : 11740446-02,31,10,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 09 07:15:48 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	5.635	43	93		N.D.	
41) Benzene	5.802	78	1344		N.D.	
44) 1,2-Dichloroethane	6.007	62	703		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.389	95	577		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.963	92	212		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.814	91	144		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.351	146	93		N.D.	
101) 1,4-Dichlorobenzene	12.429	146	270		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	14.261	180	110		N.D.	
111) 1,2,3-Trichlorobenzene	14.721	180	309		N.D.	

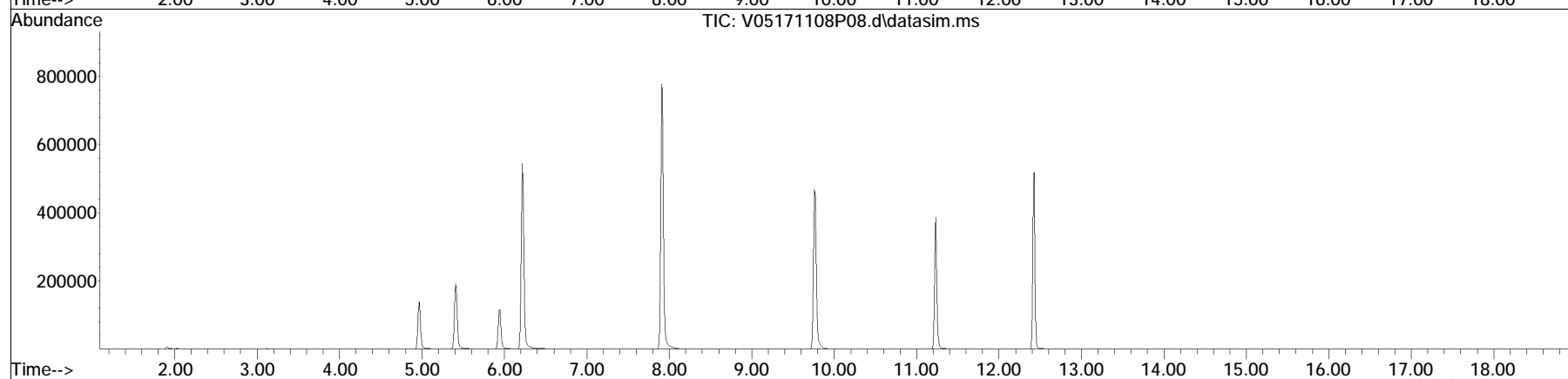
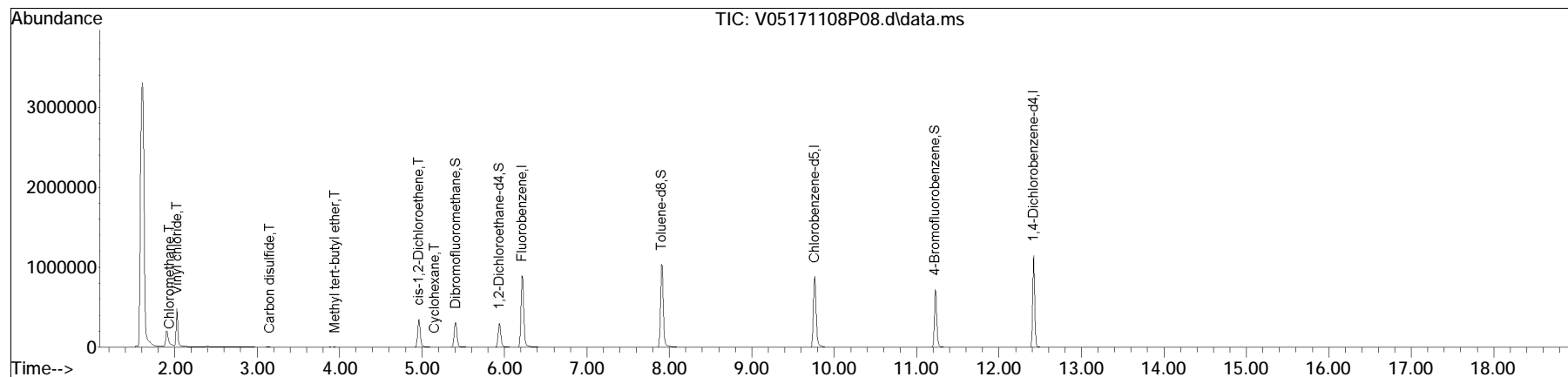
(#) = qualifier out of range (m) = manual integration (+) = signals summed

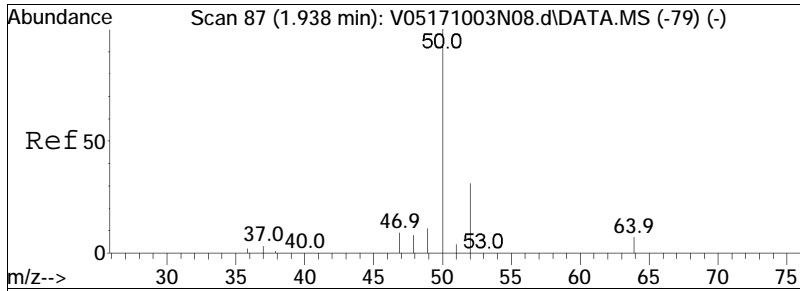
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P08.d
 Acq On : 8 Nov 2017 11:49 pm
 Operator : VOA105:PD
 Sample : 11740446-02,31,10,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 09 07:15:48 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

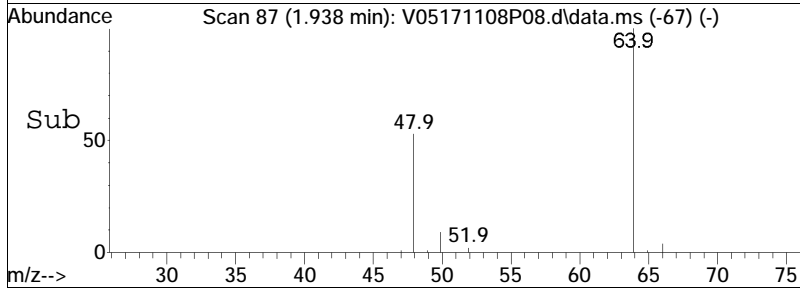
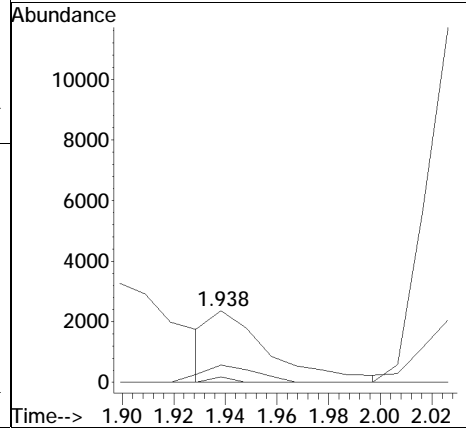
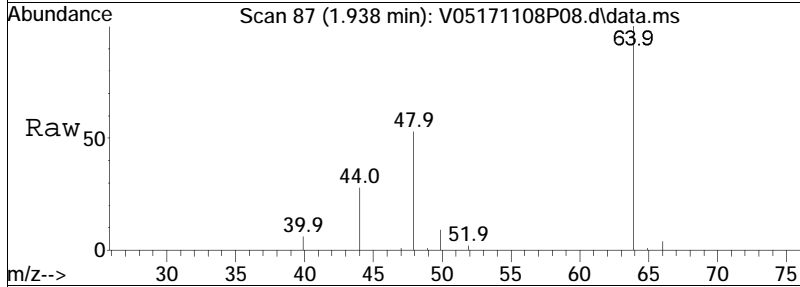
Sub List : 8260-Curve - Megamix plus Diox71108P\V05171108P01.d•

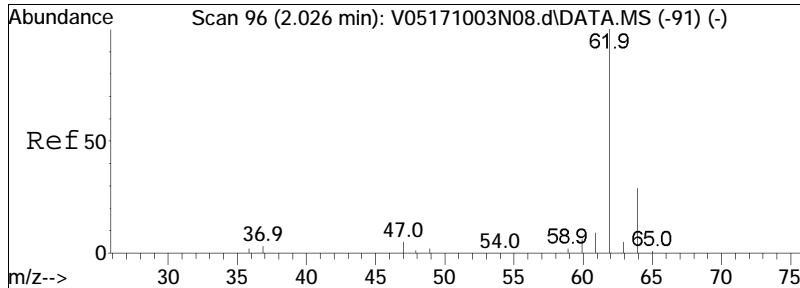




#3
 Chloromethane
 Concen: 0.28 ug/L M2
 RT: 1.938 min Scan# 87
 Delta R.T. -0.000 min
 Lab File: V05171108P08.d
 Acq: 8 Nov 2017 11:49 pm

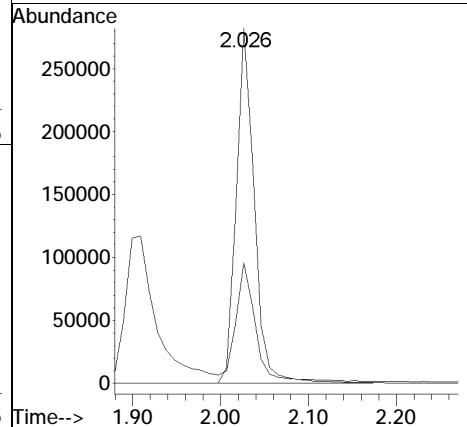
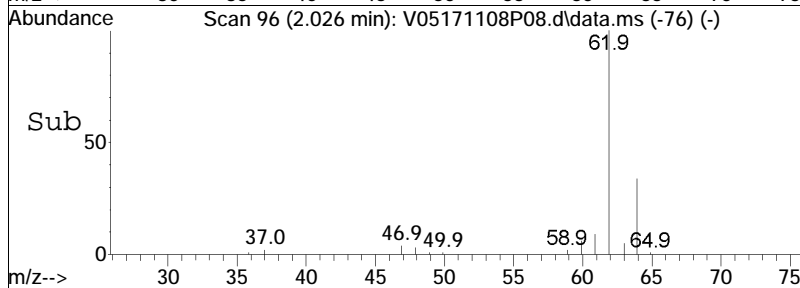
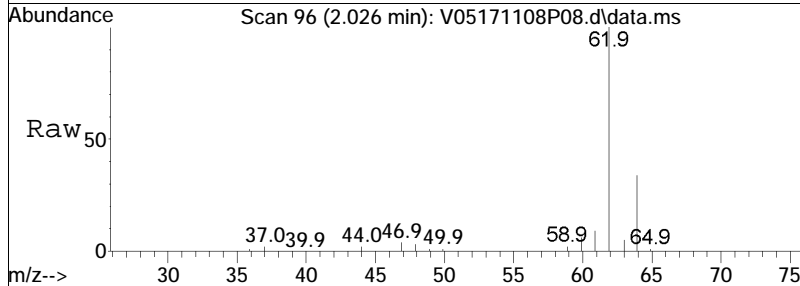
Tgt Ion	Ratio	Lower	Upper
50	100		
52	22.6	11.4	51.4
47	0.0	0.0	28.0

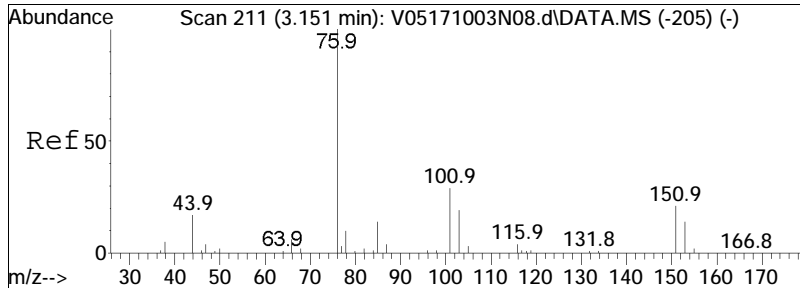




#4
 Vinyl chloride
 Concen: 32.63 ug/L
 RT: 2.026 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V05171108P08.d
 Acq: 8 Nov 2017 11:49 pm

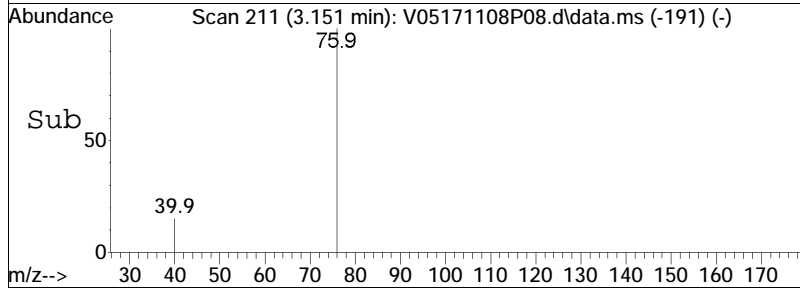
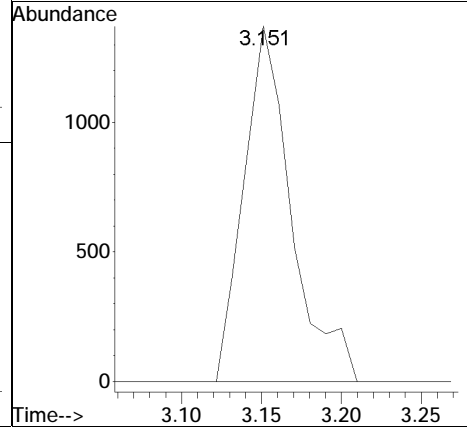
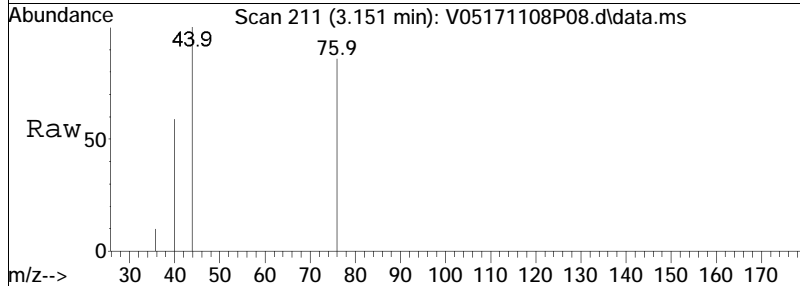
Tgt Ion	Resp	Lower	Upper
62	100		
64	36.7	13.8	53.8

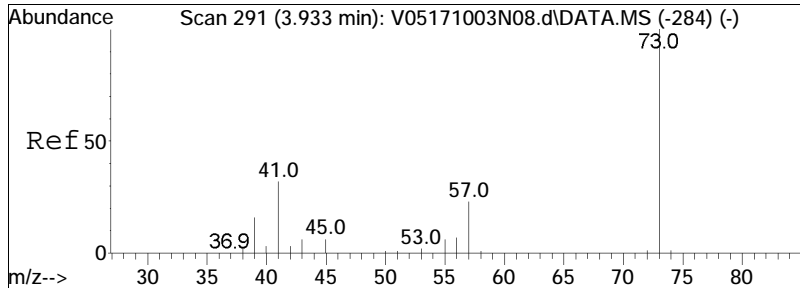




#11
 Carbon disulfide
 Concen: 0.08 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: V05171108P08.d
 Acq: 8 Nov 2017 11:49 pm

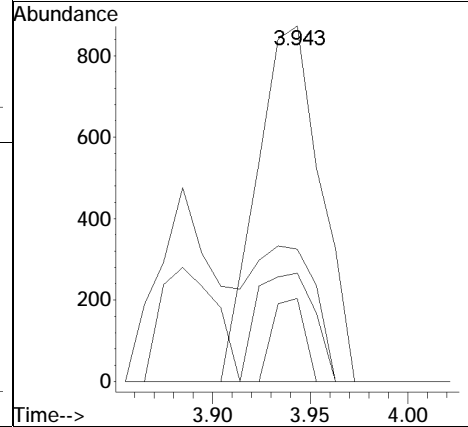
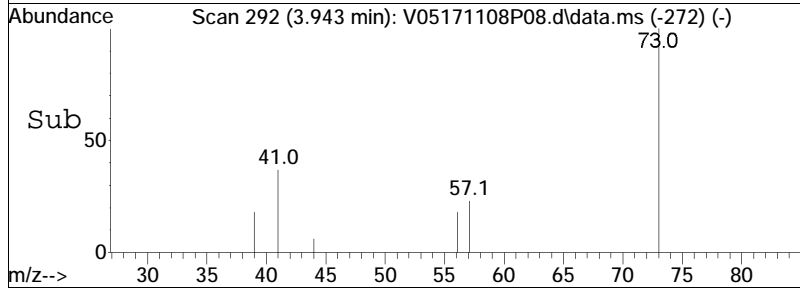
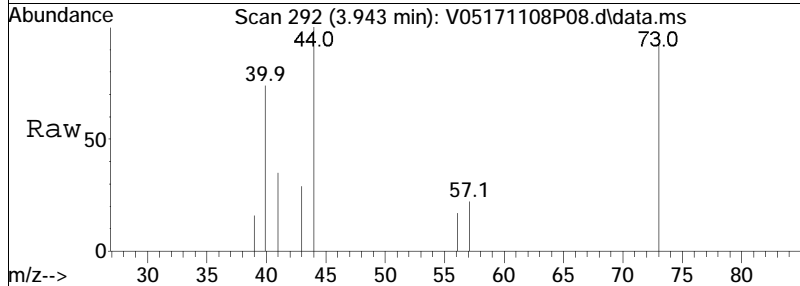
Tgt Ion	Resp	Lower	Upper
76	100		
78	0.0	6.7	13.9#

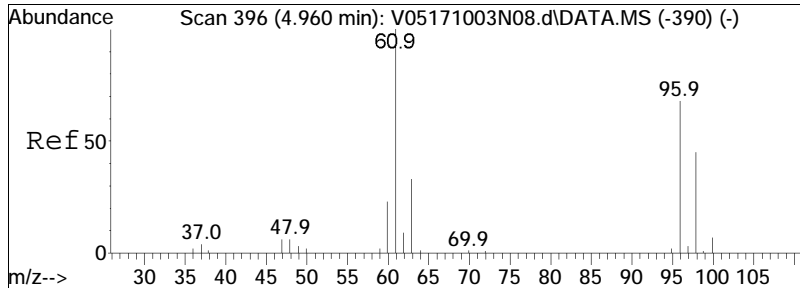




#20
 Methyl tert-butyl ether
 Concen: 0.08 ug/L
 RT: 3.943 min Scan# 292
 Delta R.T. -0.000 min
 Lab File: V05171108P08.d
 Acq: 8 Nov 2017 11:49 pm

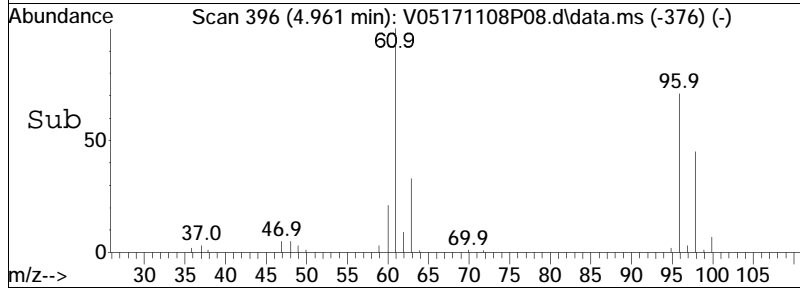
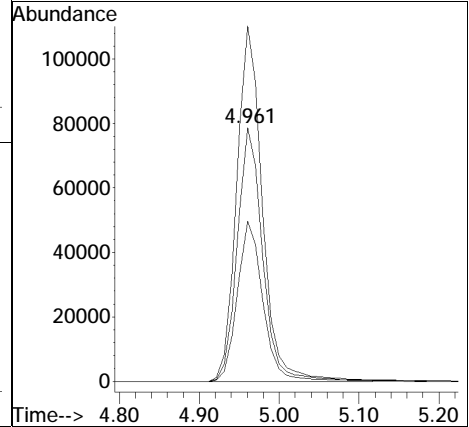
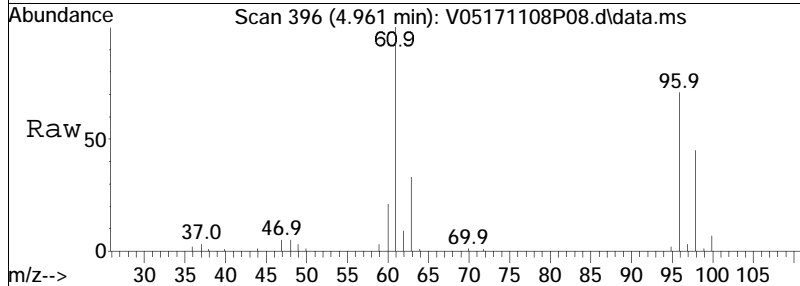
Tgt Ion	Resp	Lower	Upper
73	100		
57	11.7	14.3	29.7#
43	27.5	16.8	35.0
41	35.4	20.9	43.3

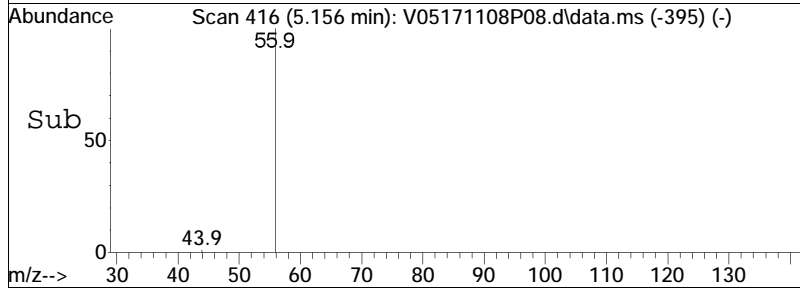
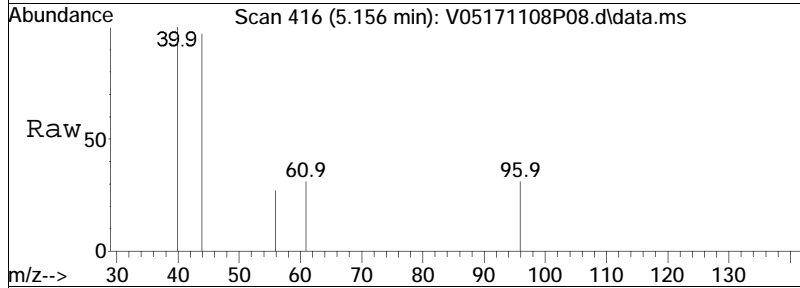
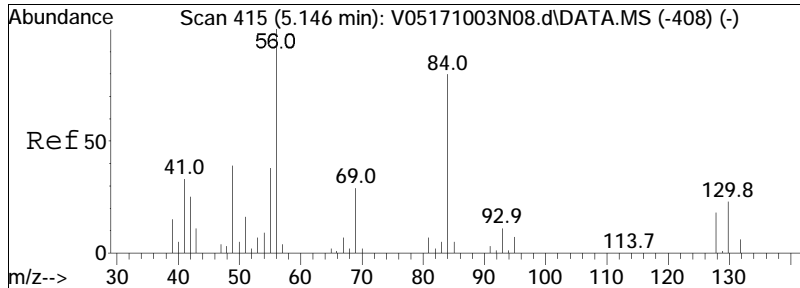




#28
 cis-1,2-Dichloroethene
 Concen: 10.23 ug/L
 RT: 4.961 min Scan# 396
 Delta R.T. -0.000 min
 Lab File: V05171108P08.d
 Acq: 8 Nov 2017 11:49 pm

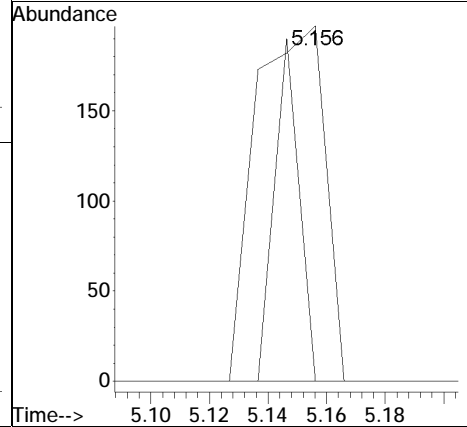
Tgt Ion:	96	Resp:	174156
Ion Ratio	Lower	Upper	
96	100		
61	141.7	113.7	170.5
98	63.9	51.2	76.8





#31
 Cyclohexane
 Concen: 0.33 ug/L
 RT: 5.156 min Scan# 416
 Delta R.T. 0.010 min
 Lab File: V05171108P08.d
 Acq: 8 Nov 2017 11:49 pm

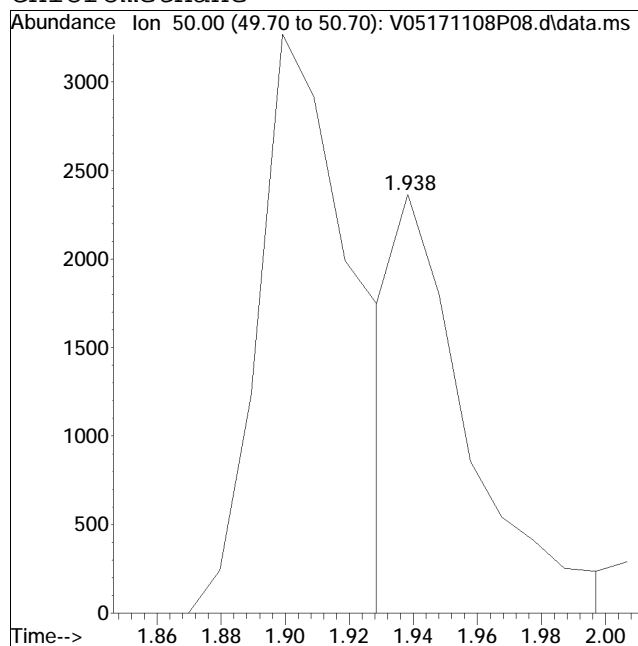
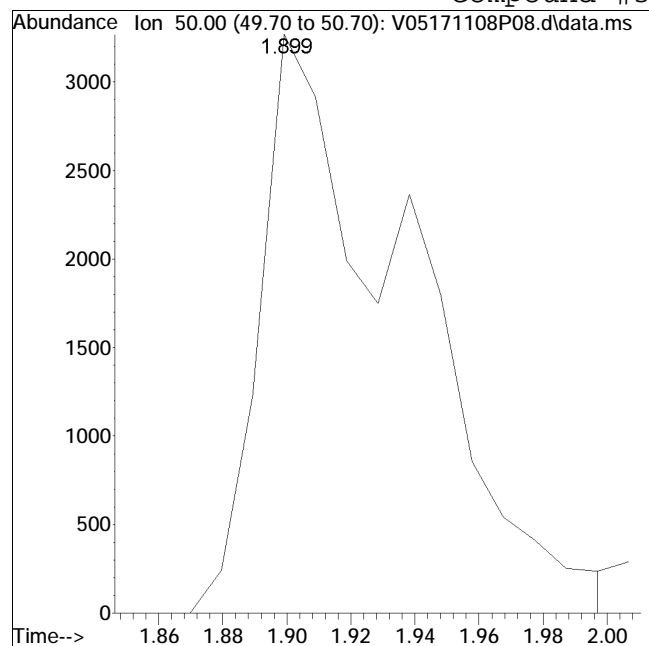
Tgt Ion	Resp	Lower	Upper
56	100		
84	34.3	51.3	106.5#



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171108P08.d Operator : VOA105:PD
Date Inj'd : 11/8/2017 11:49 pm Instrument : VOA 105
Sample : 11740446-02,31,10,10,,a Quant Date : 11/9/2017 7:11 am

Compound #3: Chloromethane



Original Peak Response = 10485

Manual Peak Response = 3795 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P09.d
 Acq On : 9 Nov 2017 12:14 am
 Operator : VOA105:PD
 Sample : 11740446-08,31,10,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 09 07:16:13 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.213	96	931488	10.000	ug/L	0.00	
Standard Area 1 = 1085488			Recovery =	85.81%			
59) Chlorobenzene-d5	9.765	117	659909	10.000	ug/L	0.00	
Standard Area 1 = 758413			Recovery =	87.01%			
79) 1,4-Dichlorobenzene-d4	12.419	152	299789	10.000	ug/L	0.00	
Standard Area 1 = 355962			Recovery =	84.22%			
System Monitoring Compounds							
36) Dibromofluoromethane	5.411	113	224797	8.476	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	84.76%			
43) 1,2-Dichloroethane-d4	5.939	65	255747	8.760	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.60%			
60) Toluene-d8	7.905	98	849554	10.042	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.42%			
83) 4-Bromofluorobenzene	11.224	95	290544	11.540	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	115.40%			
Target Compounds							
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	1.938	50	7006	0.532	ug/L	81	
4) Vinyl chloride	2.026	62	1887	0.155	ug/L #	41	
5) Bromomethane	2.359	94	102		N.D.		
6) Chloroethane	0.000		0		N.D. d		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	3.151	76	2097		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	3.699	84	868		N.D.		
17) Acetone	3.748	43	1326	0.575	ug/L #	72	
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	3.875	43	305		N.D.		
20) Methyl tert-butyl ether	0.000		0		N.D.		
23) 1,1-Dichloroethane	0.000		0		N.D.		
28) cis-1,2-Dichloroethene	4.961	96	23058	1.375	ug/L	97	
30) Bromochloromethane	0.000		0		N.D.		
31) Cyclohexane	0.000		0		N.D.		
32) Chloroform	5.225	83	302		N.D.		
34) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P09.d
 Acq On : 9 Nov 2017 12:14 am
 Operator : VOA105:PD
 Sample : 11740446-08,31,10,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 09 07:16:13 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	5.792	78	94		N.D.	
44) 1,2-Dichloroethane	6.007	62	656		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.963	92	91		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.814	91	189		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.429	146	252		N.D.	
101) 1,4-Dichlorobenzene	12.429	146	252		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	14.721	180	180		N.D.	

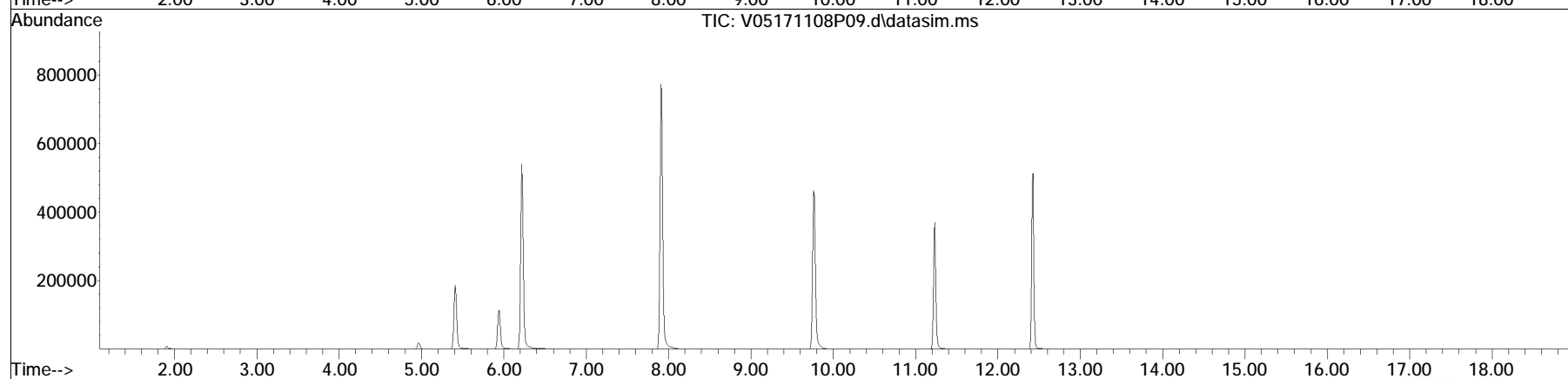
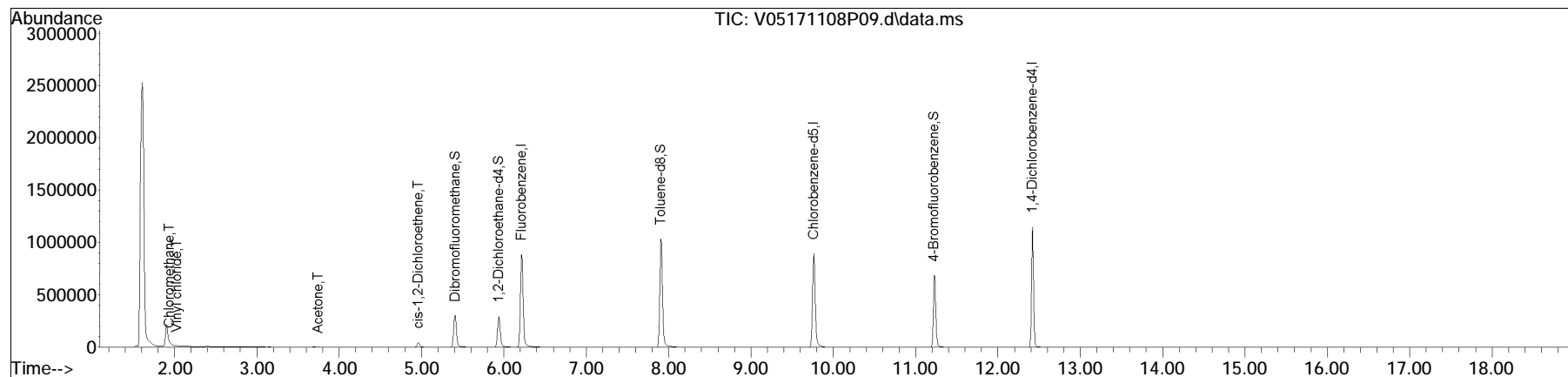
(#) = qualifier out of range (m) = manual integration (+) = signals summed

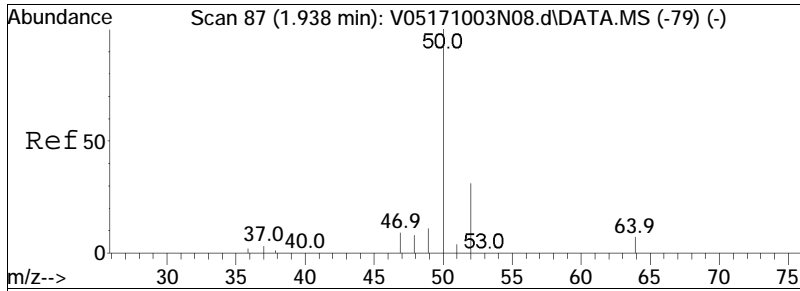
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
Data File : V05171108P09.d
Acq On : 9 Nov 2017 12:14 am
Operator : VOA105:PD
Sample : 11740446-08,31,10,10,,a
Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 09 07:16:13 2017
Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 26 21:10:14 2017
Response via : Initial Calibration

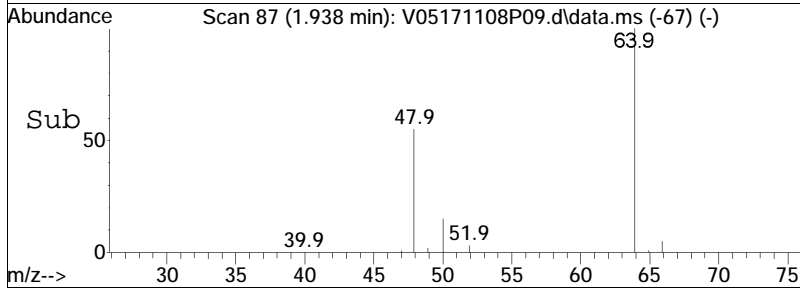
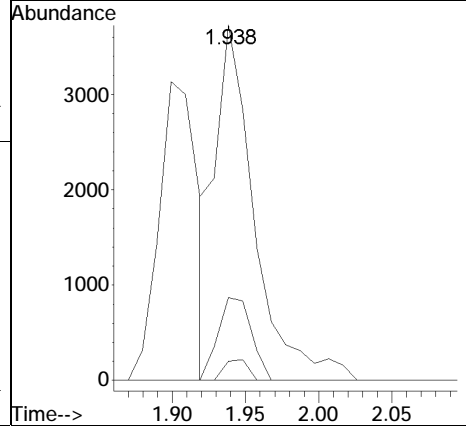
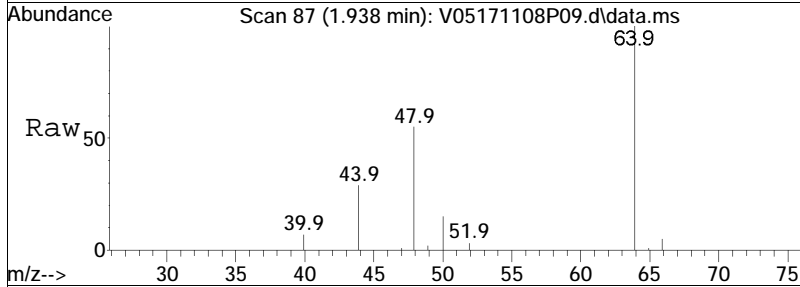
Sub List : 8260-Curve - Megamix plus Diox71108P\V05171108P01.d•

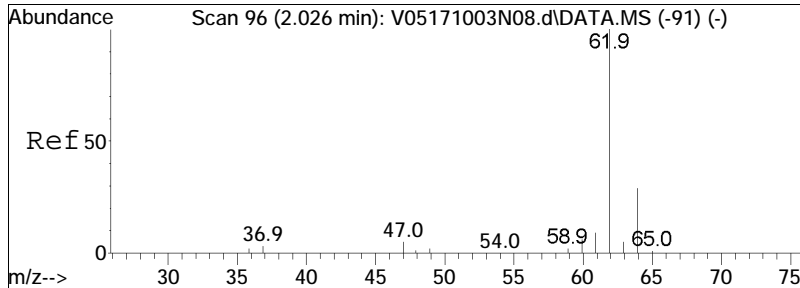




#3
 Chloromethane
 Concen: 0.53 ug/L
 RT: 1.938 min Scan# 87
 Delta R.T. -0.000 min
 Lab File: V05171108P09.d
 Acq: 9 Nov 2017 12:14 am

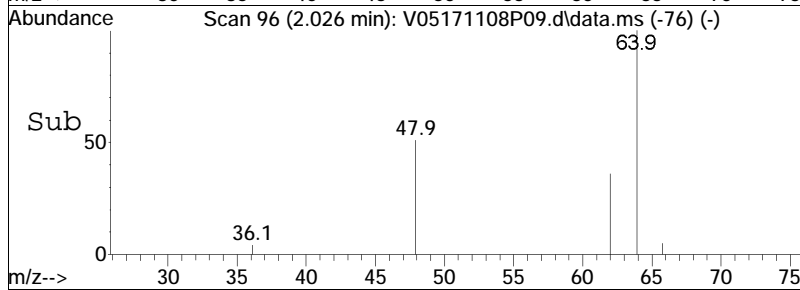
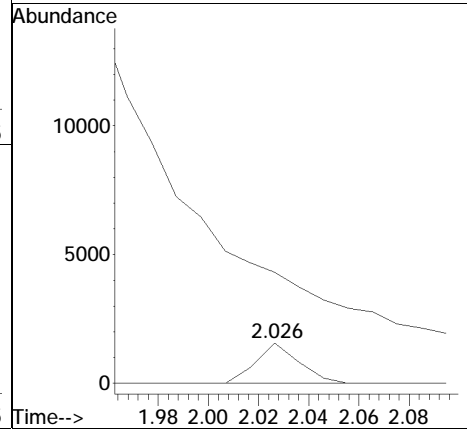
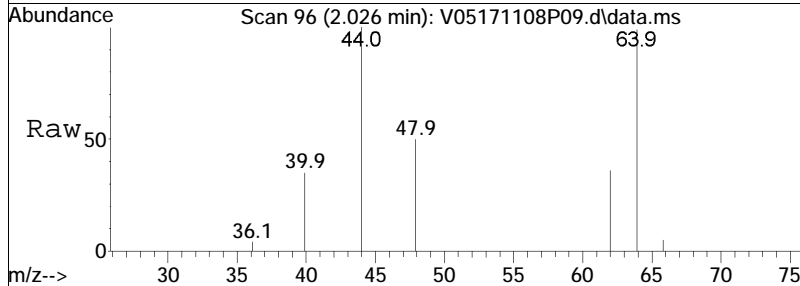
Tgt Ion	Ratio	Lower	Upper
50	100		
52	19.8	11.4	51.4
47	3.5	0.0	28.0

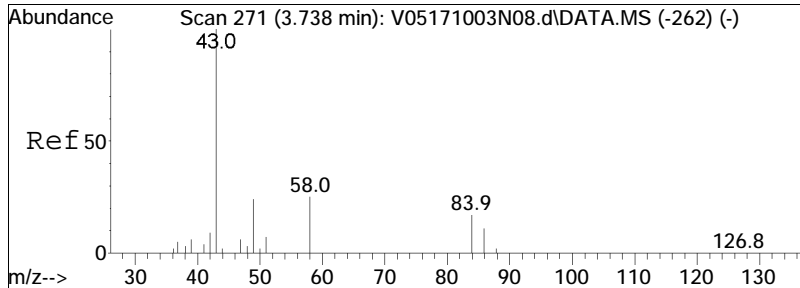




#4
 Vinyl chloride
 Concen: 0.15 ug/L
 RT: 2.026 min Scan# 96
 Delta R.T. 0.000 min
 Lab File: V05171108P09.d
 Acq: 9 Nov 2017 12:14 am

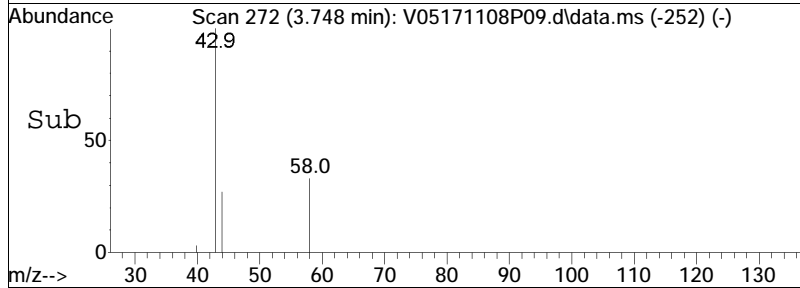
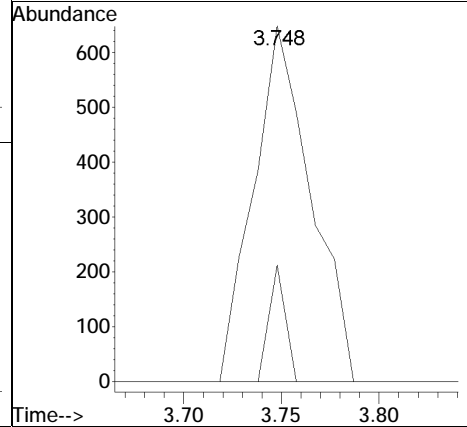
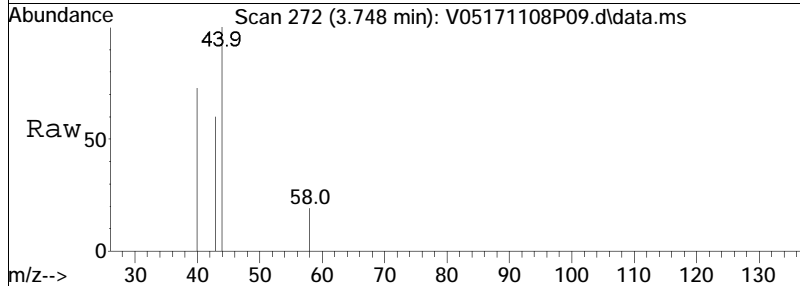
Tgt Ion	Resp	Lower	Upper
62	1887		
64	100		
64	0.0	13.8	53.8#

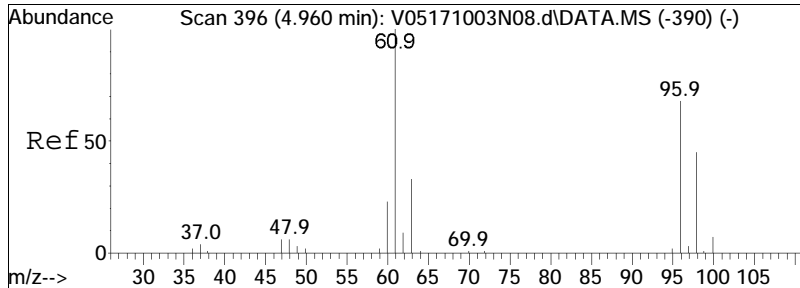




#17
 Acetone
 Concen: 0.58 ug/L
 RT: 3.748 min Scan# 272
 Delta R.T. -0.000 min
 Lab File: V05171108P09.d
 Acq: 9 Nov 2017 12:14 am

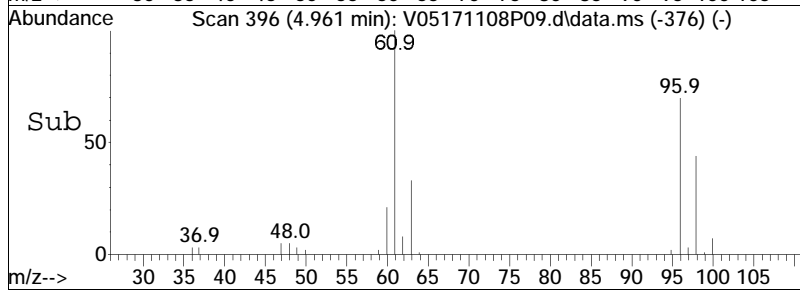
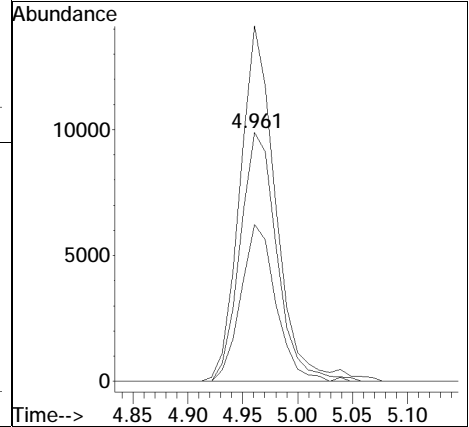
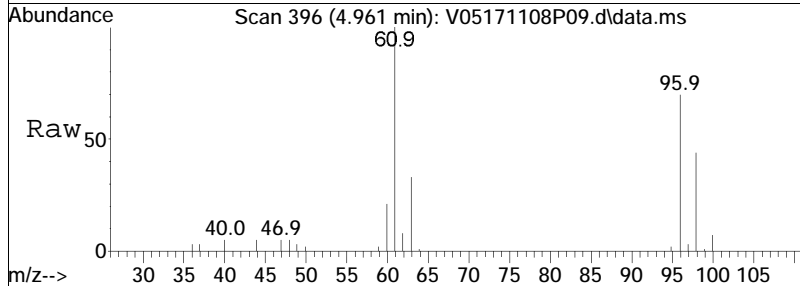
Tgt Ion	Resp	Lower	Upper
43	100		
58	9.4	18.5	27.7#





#28
 cis-1,2-Dichloroethene
 Concen: 1.38 ug/L
 RT: 4.961 min Scan# 396
 Delta R.T. 0.000 min
 Lab File: V05171108P09.d
 Acq: 9 Nov 2017 12:14 am

Tgt Ion	Resp	Lower	Upper
96	23058		
96	100		
61	139.5	113.7	170.5
98	60.4	51.2	76.8



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171108P09.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 12:14 am Instrument : VOA 105
Sample : 11740446-08,31,10,10,,a Quant Date : 11/9/2017 7:11 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P10.d
 Acq On : 9 Nov 2017 12:39 am
 Operator : VOA105:PD
 Sample : 11740446-05D,31,4,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 09 07:16:55 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.212	96	914218	10.000	ug/L	0.00	
Standard Area 1 = 1085488			Recovery =	84.22%			
59) Chlorobenzene-d5	9.765	117	640340	10.000	ug/L	0.00	
Standard Area 1 = 758413			Recovery =	84.43%			
79) 1,4-Dichlorobenzene-d4	12.419	152	292586	10.000	ug/L	0.00	
Standard Area 1 = 355962			Recovery =	82.20%			
System Monitoring Compounds							
36) Dibromofluoromethane	5.401	113	225210	8.652	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	86.52%			
43) 1,2-Dichloroethane-d4	5.939	65	254549	8.884	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	88.84%			
60) Toluene-d8	7.905	98	823673	10.034	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.34%			
83) 4-Bromofluorobenzene	11.224	95	283413	11.534	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	115.34%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	0.000		0		N.D. d		
4) Vinyl chloride	2.026	62	782760	65.323	ug/L	100	
5) Bromomethane	0.000		0		N.D.		
6) Chloroethane	0.000		0		N.D. d		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	3.122	96	5878	0.459	ug/L	93	
11) Carbon disulfide	3.151	76	2008		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	3.699	84	971		N.D.		
17) Acetone	3.748	43	1153	0.510	ug/L #	70	
18) trans-1,2-Dichloroethene	3.846	96	97898	6.457	ug/L	99	
19) Methyl acetate	3.894	43	192		N.D.		
20) Methyl tert-butyl ether	0.000		0		N.D.		
23) 1,1-Dichloroethane	0.000		0		N.D.		
28) cis-1,2-Dichloroethene	4.961	96	2224509	135.166	ug/L	99	
30) Bromochloromethane	0.000		0		N.D.		
31) Cyclohexane	0.000		0		N.D.		
32) Chloroform	5.225	83	542		N.D.		
34) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P10.d
 Acq On : 9 Nov 2017 12:39 am
 Operator : VOA105:PD
 Sample : 11740446-05D,31,4,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 09 07:16:55 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	5.538	43	98		N.D.	
41) Benzene	5.802	78	1777		N.D.	
44) 1,2-Dichloroethane	6.017	62	803		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.389	95	16800	0.917	ug/L	97
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.963	92	536		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.804	91	204		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.439	146	186		N.D.	
101) 1,4-Dichlorobenzene	12.439	146	186		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

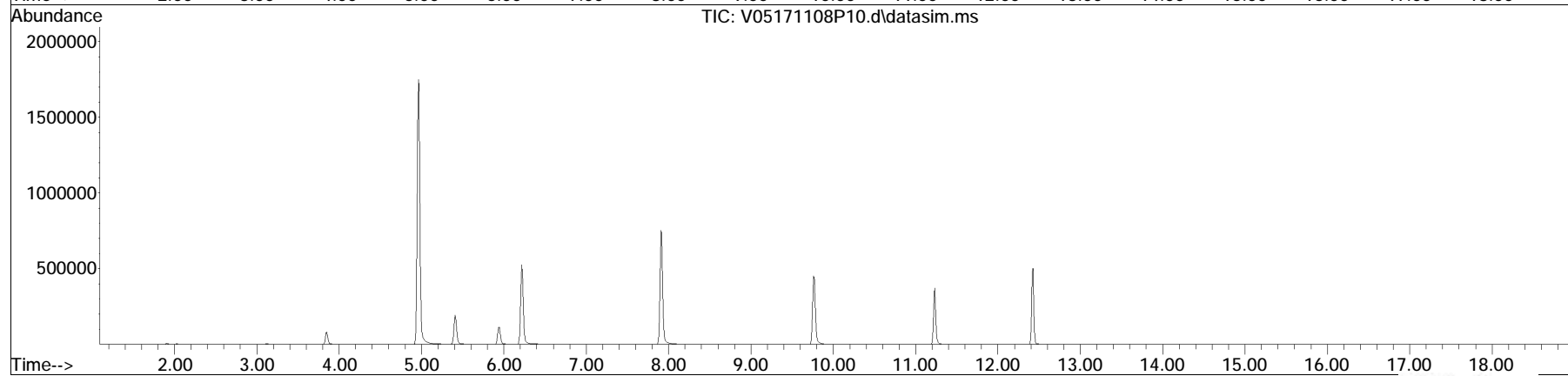
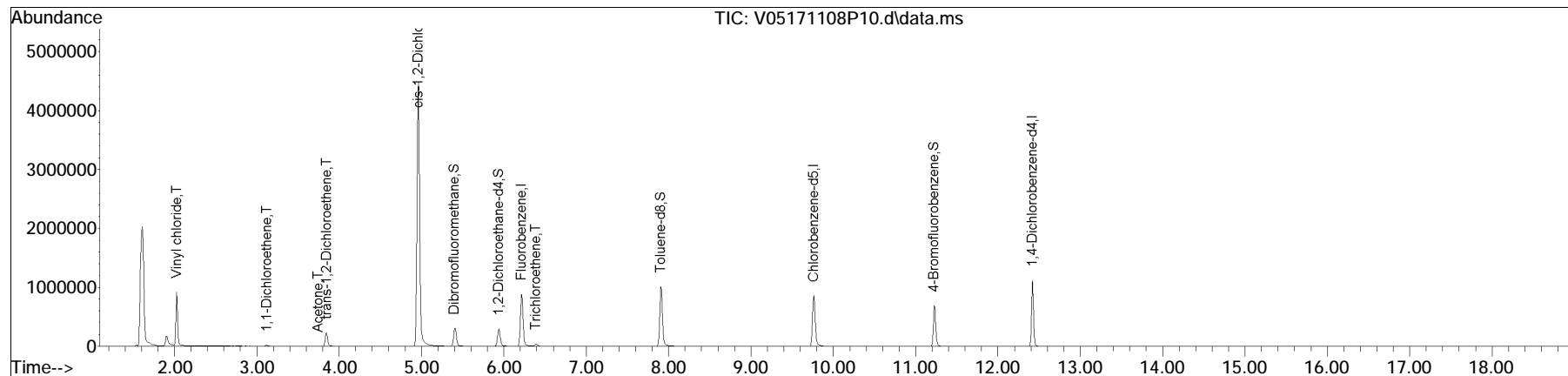
(#) = qualifier out of range (m) = manual integration (+) = signals summed

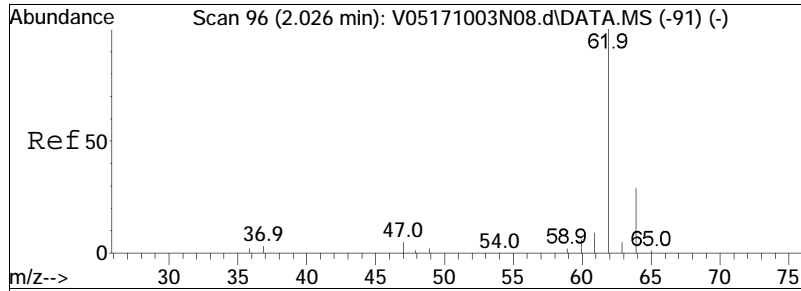
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P10.d
 Acq On : 9 Nov 2017 12:39 am
 Operator : VOA105:PD
 Sample : 11740446-05D,31,4,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 09 07:16:55 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

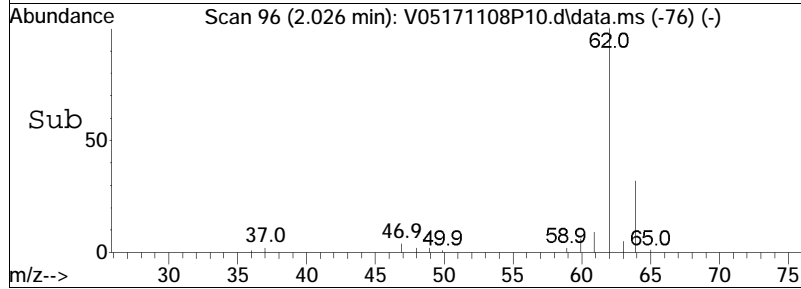
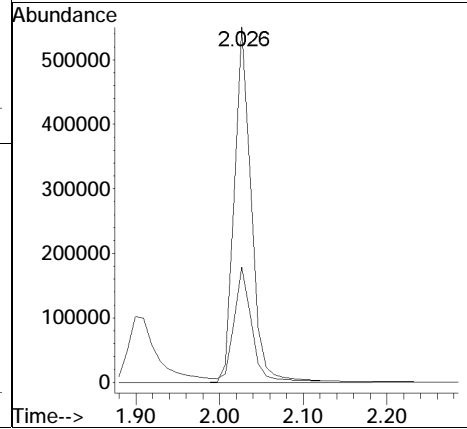
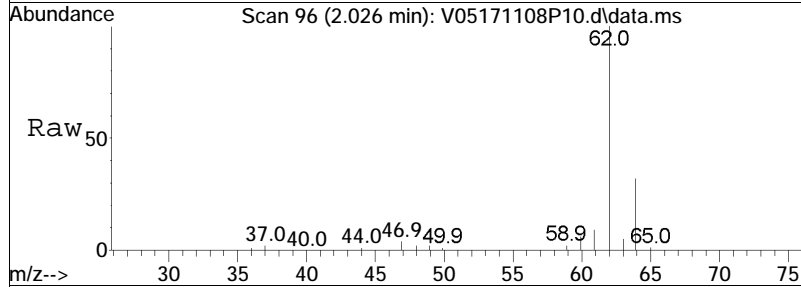
Sub List : 8260-Curve - Megamix plus Diox71108P\V05171108P01.d•

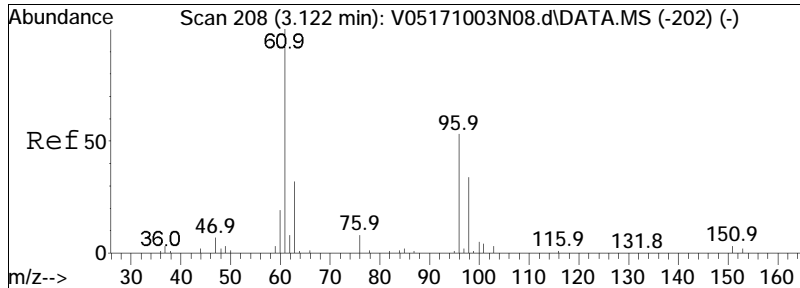




#4
 Vinyl chloride
 Concen: 65.32 ug/L
 RT: 2.026 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V05171108P10.d
 Acq: 9 Nov 2017 12:39 am

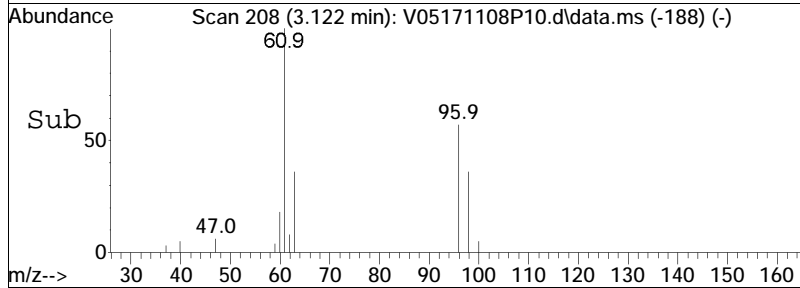
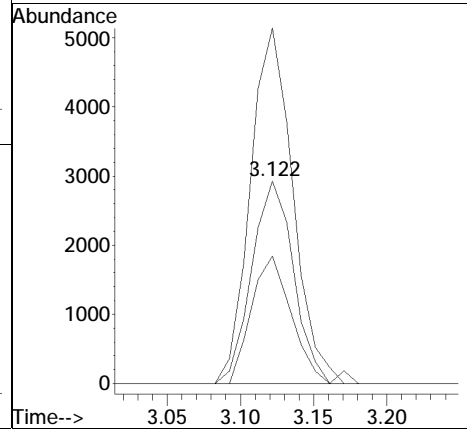
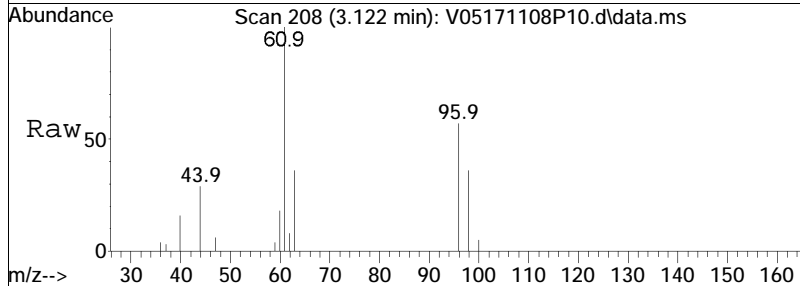
Tgt Ion: 62 Resp: 782760
 Ion Ratio Lower Upper
 62 100
 64 33.5 13.8 53.8

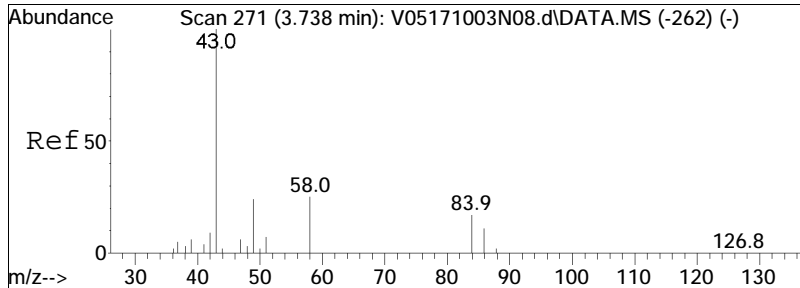




#10
 1,1-Dichloroethene
 Concen: 0.46 ug/L
 RT: 3.122 min Scan# 208
 Delta R.T. -0.000 min
 Lab File: V05171108P10.d
 Acq: 9 Nov 2017 12:39 am

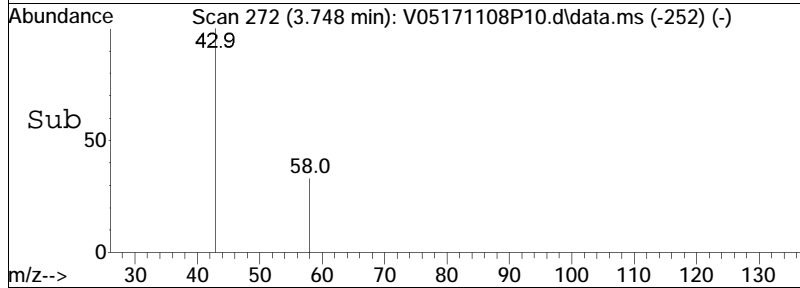
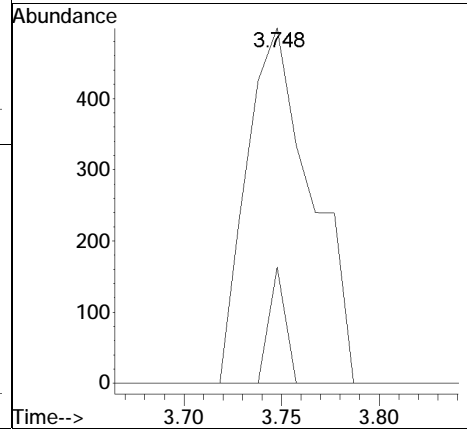
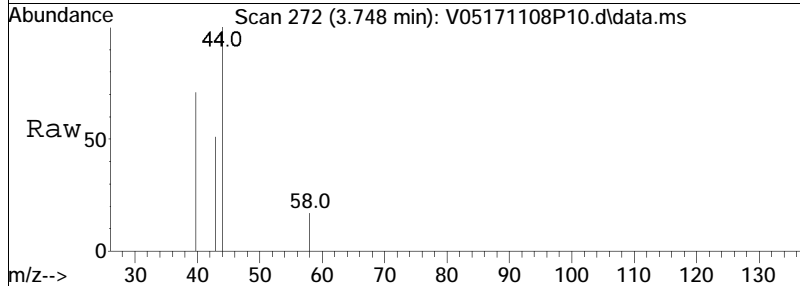
Tgt Ion	Resp	Lower	Upper
96	100		
61	175.7	151.0	226.4
63	59.2	47.7	71.5

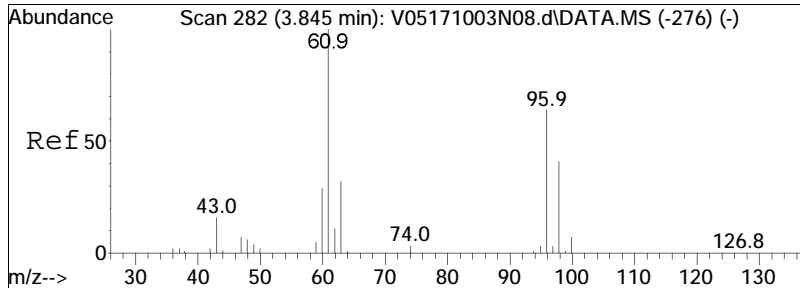




#17
 Acetone
 Concen: 0.51 ug/L
 RT: 3.748 min Scan# 272
 Delta R.T. -0.000 min
 Lab File: V05171108P10.d
 Acq: 9 Nov 2017 12:39 am

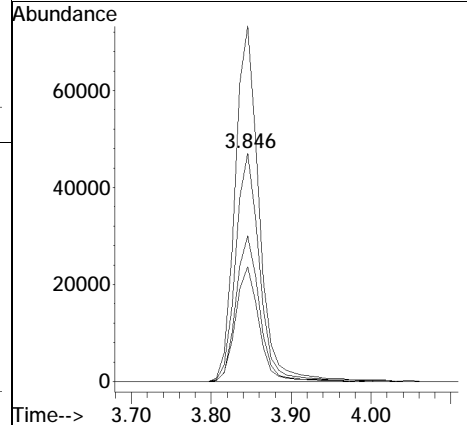
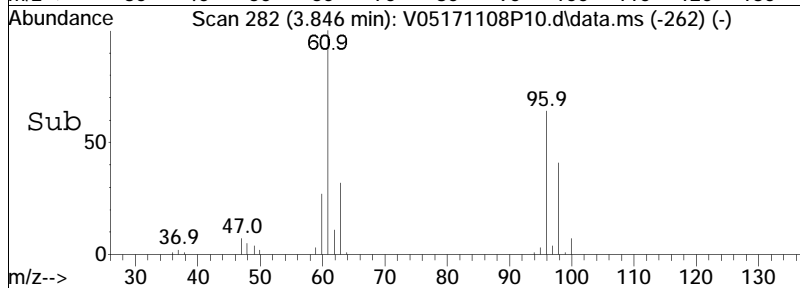
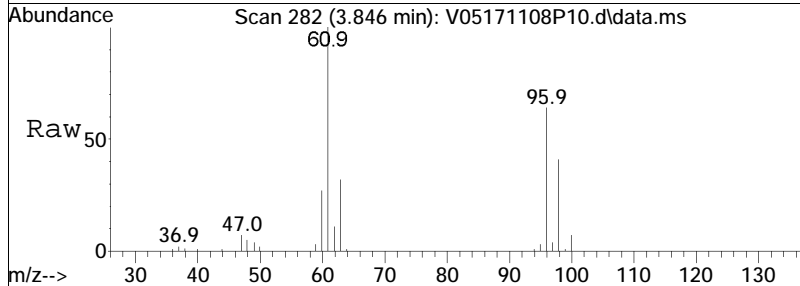
Tgt Ion	Resp	Lower	Upper
43	100		
58	8.3	18.5	27.7#

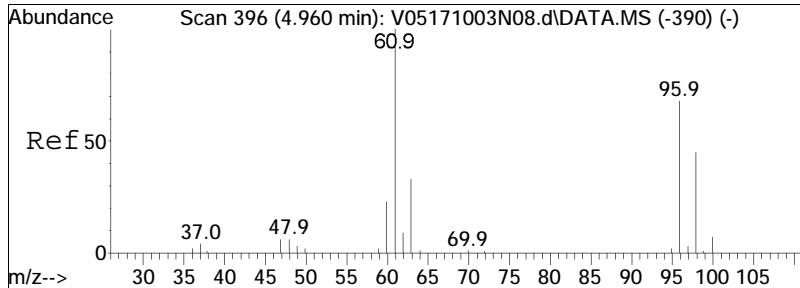




#18
 trans-1,2-Dichloroethene
 Concen: 6.46 ug/L
 RT: 3.846 min Scan# 282
 Delta R.T. -0.000 min
 Lab File: V05171108P10.d
 Acq: 9 Nov 2017 12:39 am

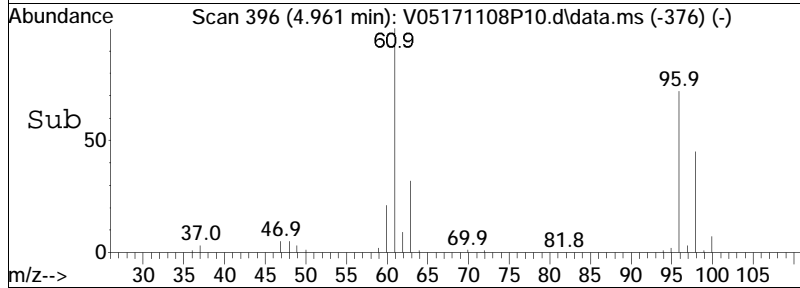
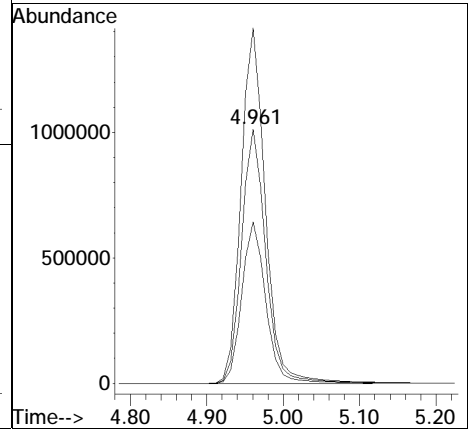
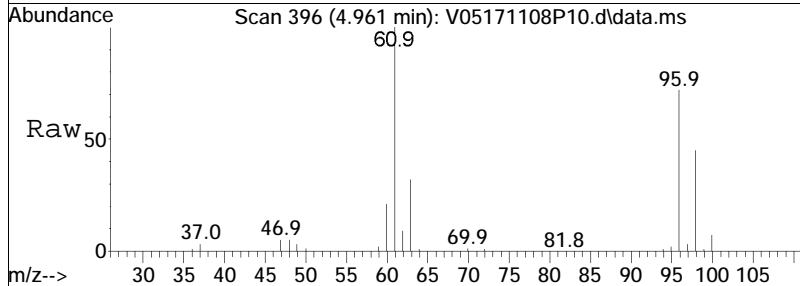
Tgt Ion	Resp	Lower	Upper
96	100		
61	156.4	102.0	211.8
98	63.2	41.9	87.1
63	49.5	32.6	67.8

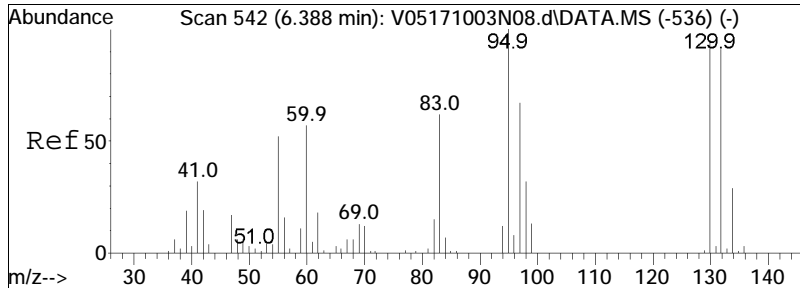




#28
 cis-1,2-Dichloroethene
 Concen: 135.17 ug/L
 RT: 4.961 min Scan# 396
 Delta R.T. -0.000 min
 Lab File: V05171108P10.d
 Acq: 9 Nov 2017 12:39 am

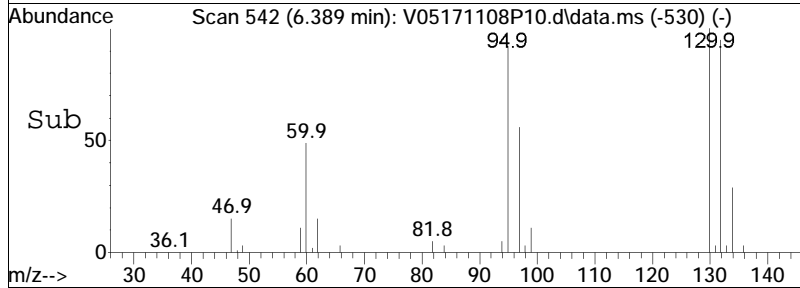
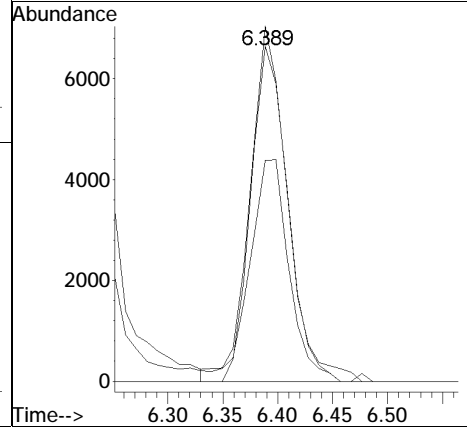
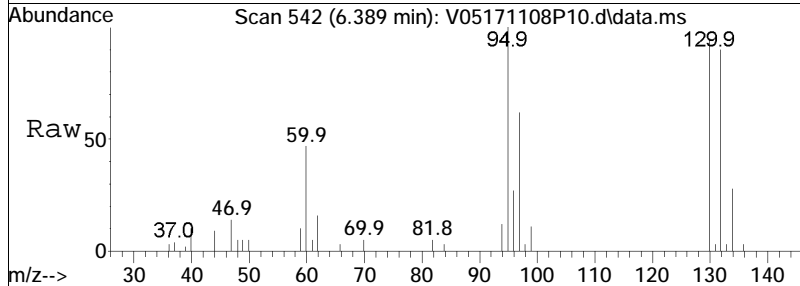
Tgt Ion	Resp	Lower	Upper
96	2224509		
96	100		
61	140.6	113.7	170.5
98	63.4	51.2	76.8





#48
 Trichloroethene
 Concen: 0.92 ug/L
 RT: 6.389 min Scan# 542
 Delta R.T. -0.000 min
 Lab File: V05171108P10.d
 Acq: 9 Nov 2017 12:39 am

Tgt Ion	Resp	Lower	Upper
95	16800		
95	100		
97	64.8	53.5	80.3
130	92.5	75.9	113.9



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171108P10.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 12:39 am Instrument : VOA 105
Sample : 11740446-05D,31,4,10,,a Quant Date : 11/9/2017 7:11 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P11.d
 Acq On : 9 Nov 2017 1:04 am
 Operator : VOA105:PD
 Sample : 11740446-07D,31,4,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 09 07:17:18 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.212	96	876168	10.000	ug/L	0.00	
Standard Area 1 = 1085488			Recovery =	80.72%			
59) Chlorobenzene-d5	9.764	117	611493	10.000	ug/L	0.00	
Standard Area 1 = 758413			Recovery =	80.63%			
79) 1,4-Dichlorobenzene-d4	12.419	152	278415	10.000	ug/L	0.00	
Standard Area 1 = 355962			Recovery =	78.21%			
System Monitoring Compounds							
36) Dibromofluoromethane	5.410	113	218296	8.750	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.50%			
43) 1,2-Dichloroethane-d4	5.938	65	239700	8.729	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.29%			
60) Toluene-d8	7.904	98	791397	10.096	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.96%			
83) 4-Bromofluorobenzene	11.224	95	267337	11.433	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	114.33%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	1.938	50	4060	0.328	ug/L #	85	
4) Vinyl chloride	2.026	62	813057	70.797	ug/L	99	
5) Bromomethane	2.359	94	102		N.D.		
6) Chloroethane	2.466	64	311		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	3.122	96	6039	0.492	ug/L	94	
11) Carbon disulfide	3.151	76	1761		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	3.689	84	887		N.D.		
17) Acetone	3.757	43	1219	0.562	ug/L #	68	
18) trans-1,2-Dichloroethene	3.845	96	101217	6.966	ug/L	98	
19) Methyl acetate	3.875	43	90		N.D.		
20) Methyl tert-butyl ether	0.000		0		N.D.		
23) 1,1-Dichloroethane	0.000		0		N.D.		
28) cis-1,2-Dichloroethene	4.960	96	2463137	156.166	ug/L	99	
30) Bromochloromethane	0.000		0		N.D.		
31) Cyclohexane	0.000		0		N.D.		
32) Chloroform	5.234	83	395		N.D.		
34) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P11.d
 Acq On : 9 Nov 2017 1:04 am
 Operator : VOA105:PD
 Sample : 11740446-07D,31,4,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 09 07:17:18 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	5.802	78	1683		N.D.	
44) 1,2-Dichloroethane	6.007	62	712		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.388	95	14966	0.853	ug/L	95
51) 1,2-Dichloropropane	6.946	63	181		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.963	92	525		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.764	91	1182		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.429	146	211		N.D.	
101) 1,4-Dichlorobenzene	12.429	146	211		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

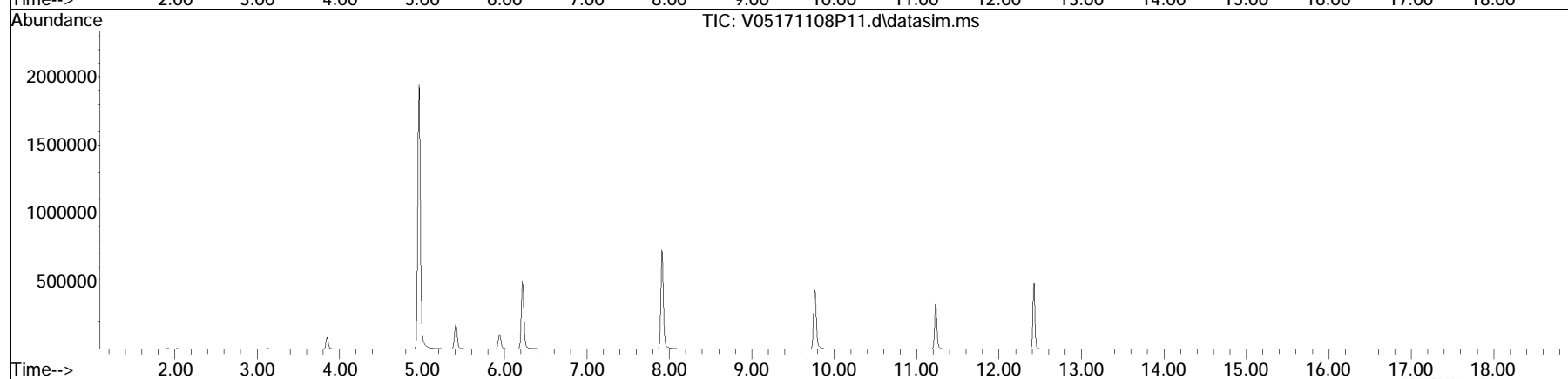
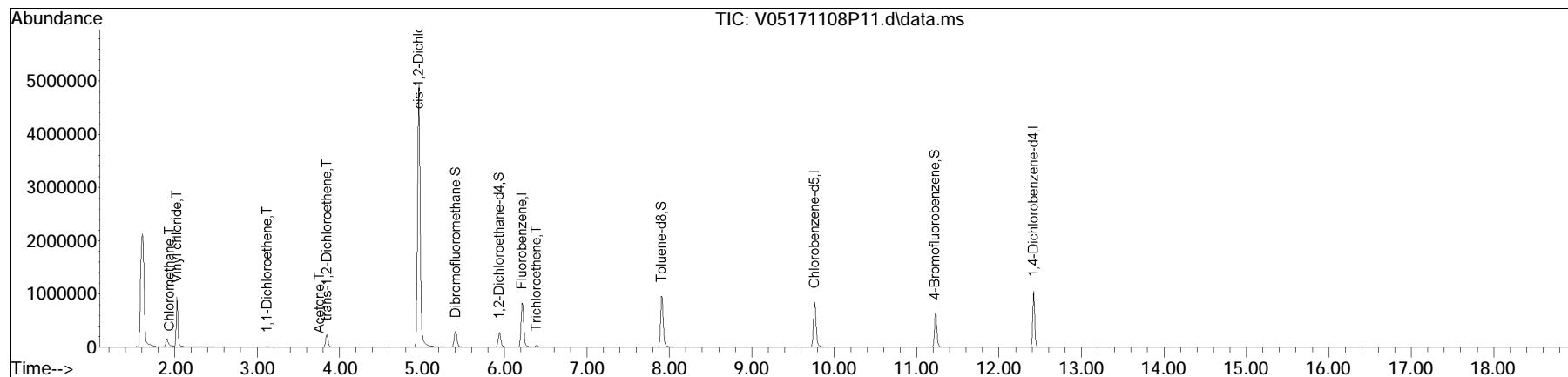
(#) = qualifier out of range (m) = manual integration (+) = signals summed

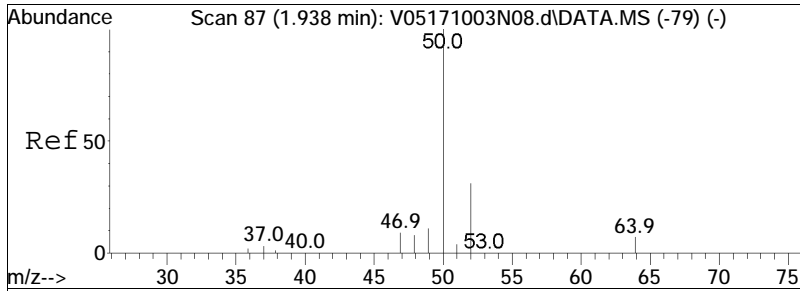
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P11.d
 Acq On : 9 Nov 2017 1:04 am
 Operator : VOA105:PD
 Sample : 11740446-07D,31,4,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 09 07:17:18 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

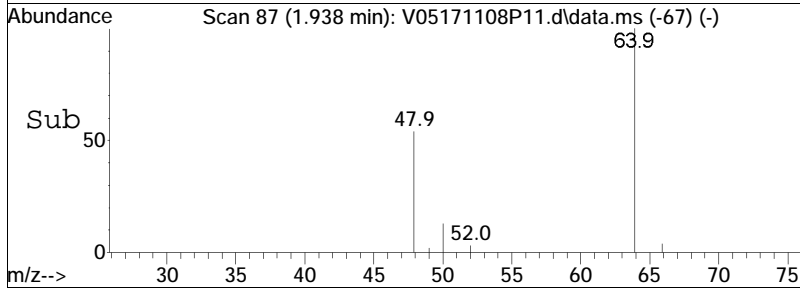
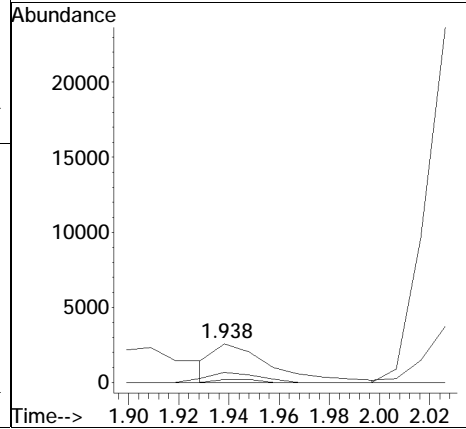
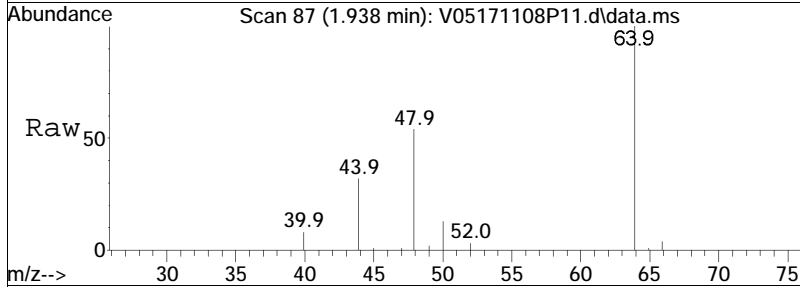
Sub List : 8260-Curve - Megamix plus Diox71108P\V05171108P01.d•

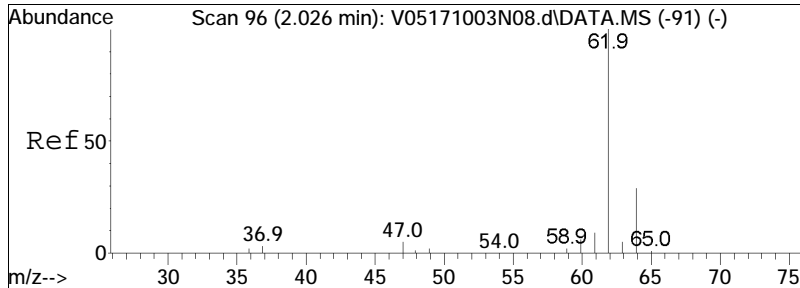




#3
 Chloromethane
 Concen: 0.33 ug/L
 RT: 1.938 min Scan# 87
 Delta R.T. -0.000 min
 Lab File: V05171108P11.d
 Acq: 9 Nov 2017 1:04 am

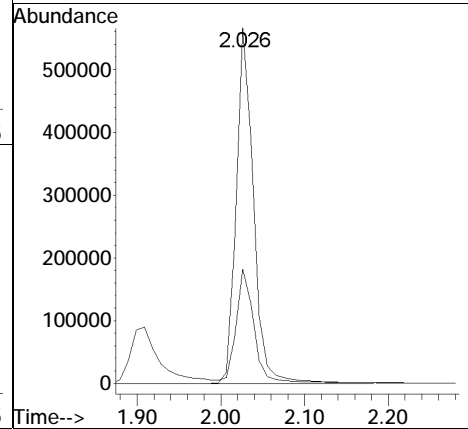
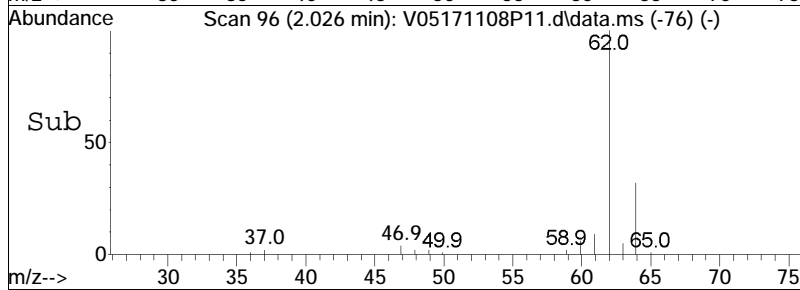
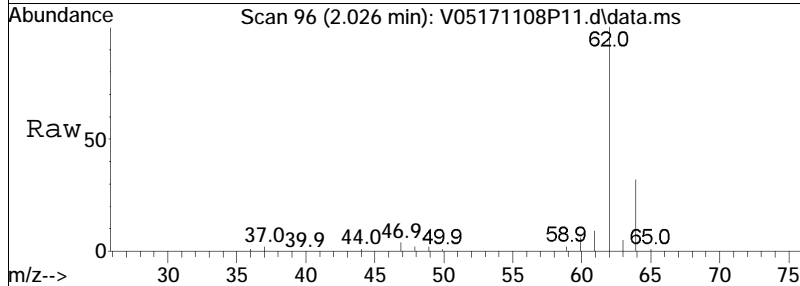
Tgt Ion	Resp	Lower	Upper
50	100		
52	23.9	11.4	51.4
47	0.0	0.0	28.0

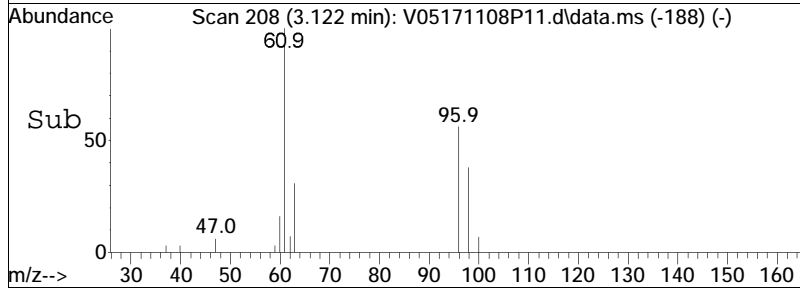
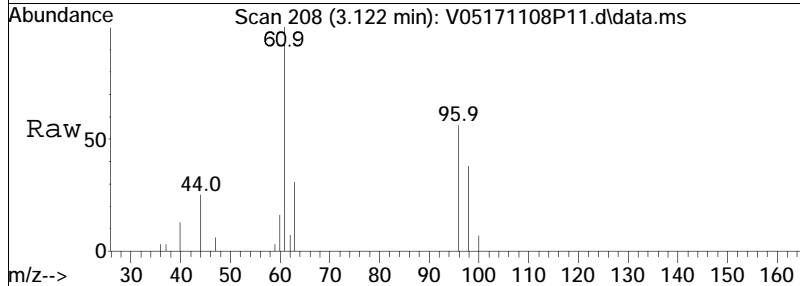
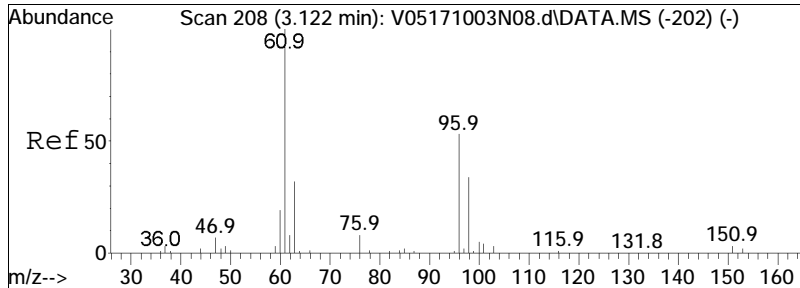




#4
 Vinyl chloride
 Concen: 70.80 ug/L
 RT: 2.026 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V05171108P11.d
 Acq: 9 Nov 2017 1:04 am

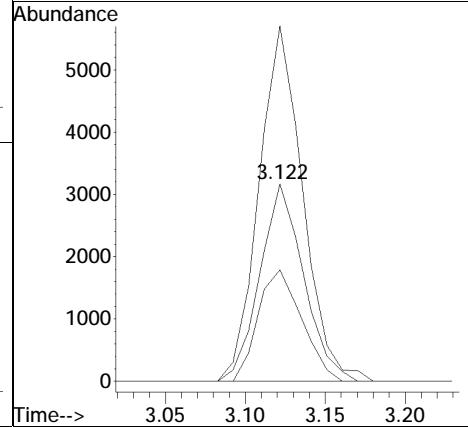
Tgt Ion	Resp	Lower	Upper
62	100		
64	32.9	13.8	53.8

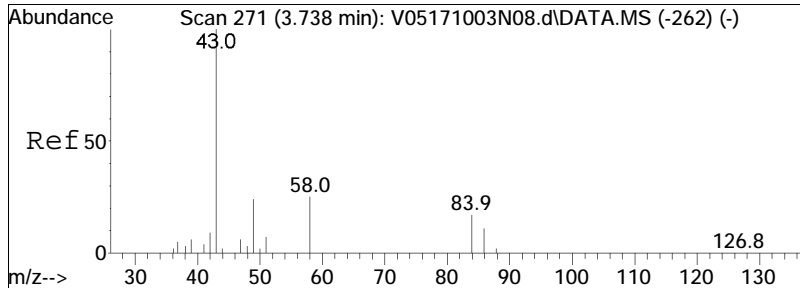




#10
 1,1-Dichloroethene
 Concen: 0.49 ug/L
 RT: 3.122 min Scan# 208
 Delta R.T. -0.000 min
 Lab File: V05171108P11.d
 Acq: 9 Nov 2017 1:04 am

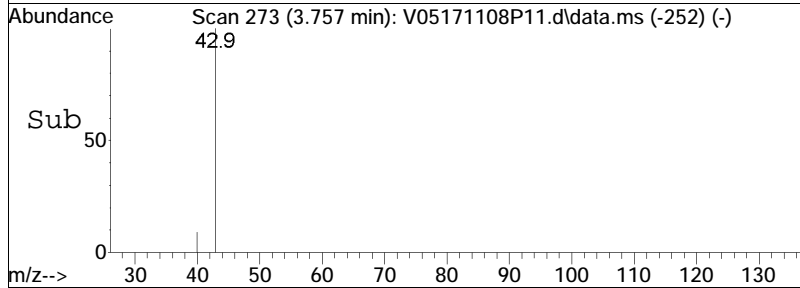
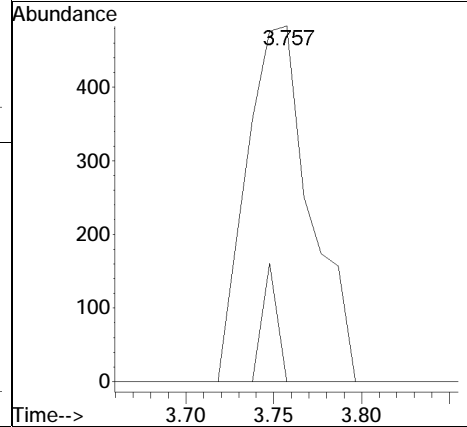
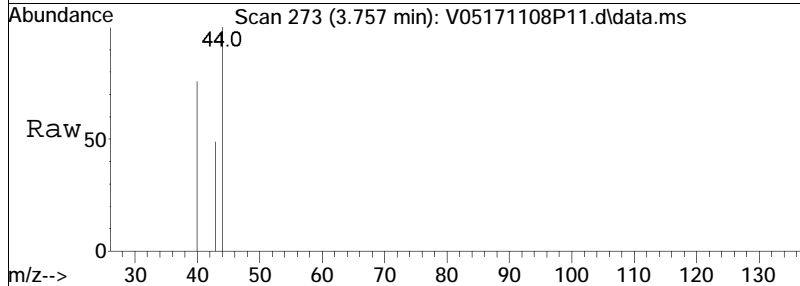
Tgt Ion	Resp	Lower	Upper
96	6039		
96	100		
61	179.7	151.0	226.4
63	56.4	47.7	71.5

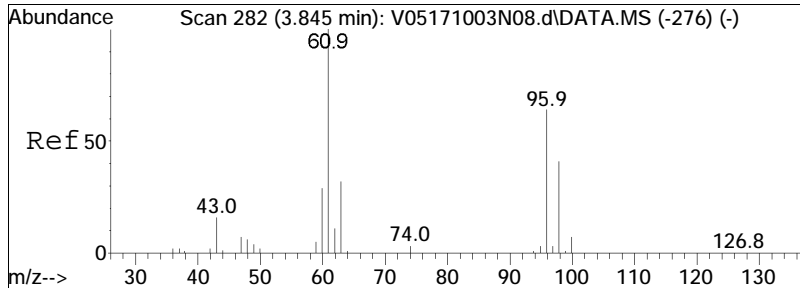




#17
 Acetone
 Concen: 0.56 ug/L
 RT: 3.757 min Scan# 273
 Delta R.T. 0.010 min
 Lab File: V05171108P11.d
 Acq: 9 Nov 2017 1:04 am

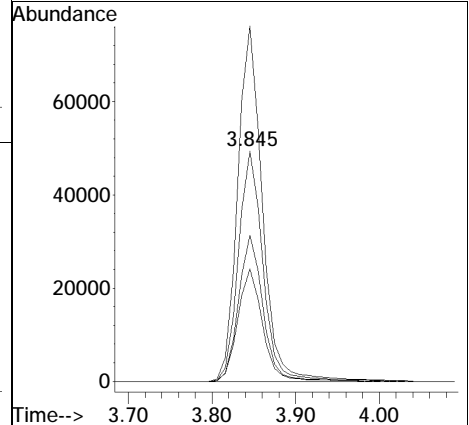
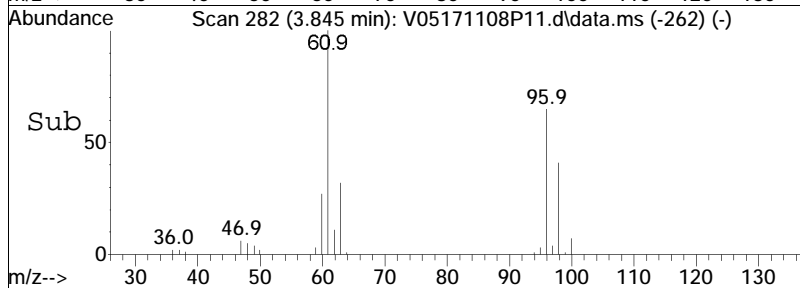
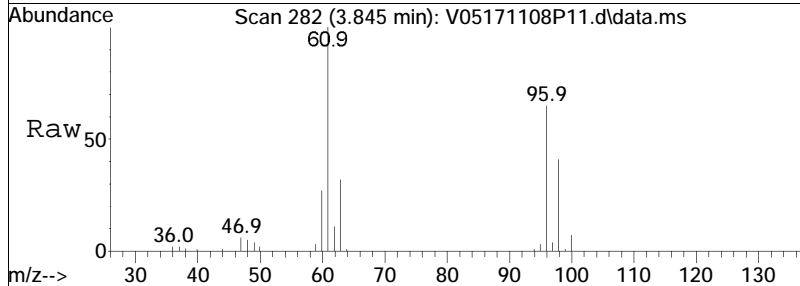
Tgt Ion	Resp	Lower	Upper
43	100		
58	7.7	18.5	27.7#

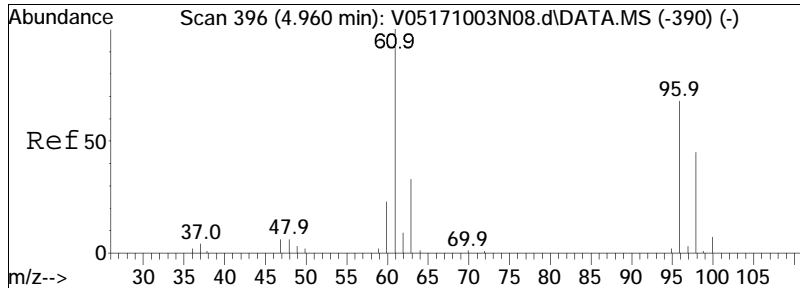




#18
 trans-1,2-Dichloroethene
 Concen: 6.97 ug/L
 RT: 3.845 min Scan# 282
 Delta R.T. -0.000 min
 Lab File: V05171108P11.d
 Acq: 9 Nov 2017 1:04 am

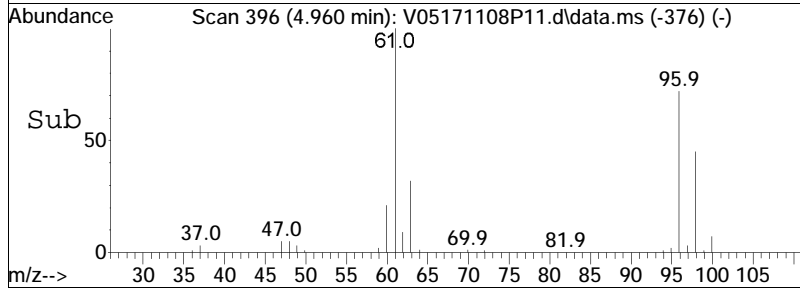
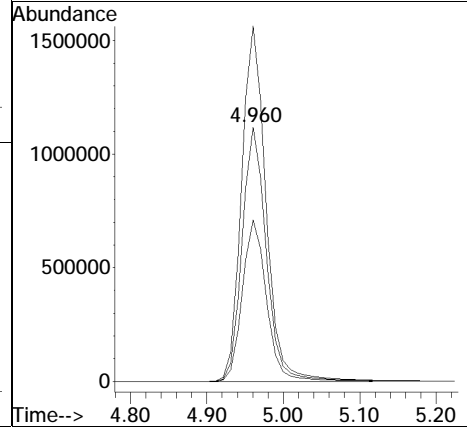
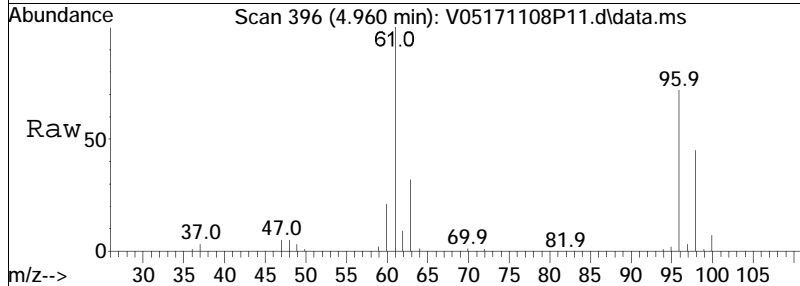
Tgt Ion	Resp	Lower	Upper
96	101217		
61	154.5	102.0	211.8
98	63.1	41.9	87.1
63	49.4	32.6	67.8

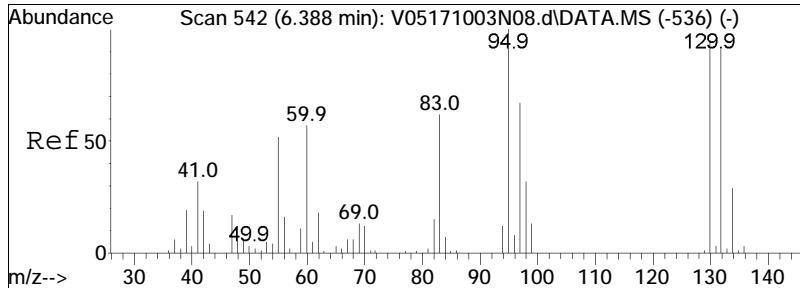




#28
 cis-1,2-Dichloroethene
 Concen: 156.17 ug/L
 RT: 4.960 min Scan# 396
 Delta R.T. -0.000 min
 Lab File: V05171108P11.d
 Acq: 9 Nov 2017 1:04 am

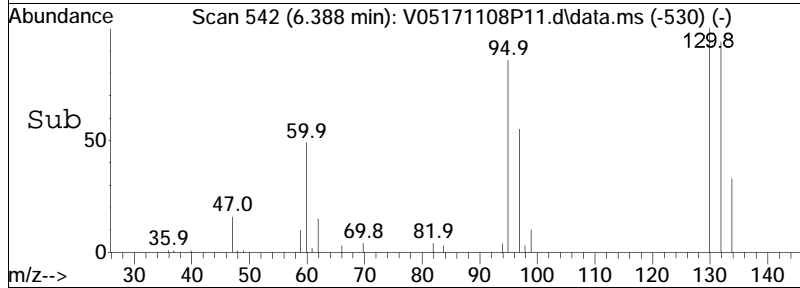
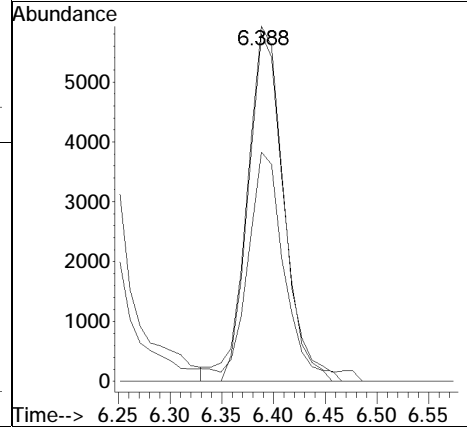
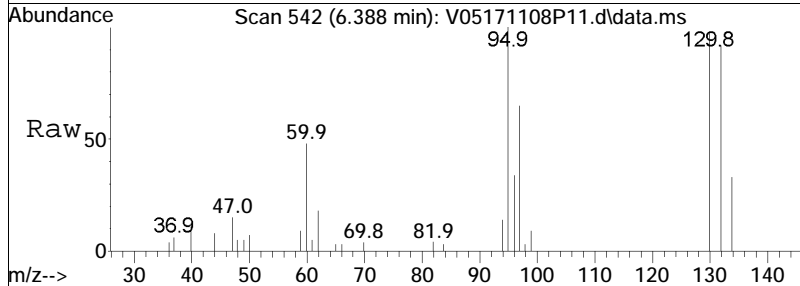
Tgt Ion:	Resp:	Lower	Upper
96	2463137		
Ion Ratio			
96	100		
61	141.1	113.7	170.5
98	63.8	51.2	76.8





#48
 Trichloroethene
 Concen: 0.85 ug/L
 RT: 6.388 min Scan# 542
 Delta R.T. -0.000 min
 Lab File: V05171108P11.d
 Acq: 9 Nov 2017 1:04 am

Tgt Ion:	95	Resp:	14966
Ion Ratio	Lower	Upper	
95	100		
97	61.6	53.5	80.3
130	91.8	75.9	113.9



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171108P11.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 1:04 am Instrument : VOA 105
Sample : 11740446-07D,31,4,10,,a Quant Date : 11/9/2017 7:12 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P12.d
 Acq On : 9 Nov 2017 1:29 am
 Operator : VOA105:PD
 Sample : 11740446-04D,31,2,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 09 07:18:23 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.212	96	876914	10.000	ug/L	0.00	
Standard Area 1 = 1085488			Recovery =	80.79%			
59) Chlorobenzene-d5	9.765	117	610757	10.000	ug/L	0.00	
Standard Area 1 = 758413			Recovery =	80.53%			
79) 1,4-Dichlorobenzene-d4	12.419	152	279953	10.000	ug/L	0.00	
Standard Area 1 = 355962			Recovery =	78.65%			
System Monitoring Compounds							
36) Dibromofluoromethane	5.401	113	219239	8.781	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	87.81%			
43) 1,2-Dichloroethane-d4	5.939	65	247016	8.988	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	89.88%			
60) Toluene-d8	7.905	98	793982	10.141	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.41%			
83) 4-Bromofluorobenzene	11.224	95	270626	11.510	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	115.10%			
Target Compounds							
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	0.000		0		N.D. d		
4) Vinyl chloride	2.026	62	1207407	105.046	ug/L	98	
5) Bromomethane	2.349	94	90		N.D.		
6) Chloroethane	0.000		0		N.D. d		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	3.122	96	4252	0.346	ug/L	92	
11) Carbon disulfide	3.151	76	2119		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	3.689	84	883		N.D.		
17) Acetone	0.000		0		N.D. d		
18) trans-1,2-Dichloroethene	3.846	96	7207	0.496	ug/L	95	
19) Methyl acetate	0.000		0		N.D. d		
20) Methyl tert-butyl ether	0.000		0		N.D.		
23) 1,1-Dichloroethane	0.000		0		N.D.		
28) cis-1,2-Dichloroethene	4.961	96	5249392	332.534	ug/L	99	
30) Bromochloromethane	0.000		0		N.D.		
31) Cyclohexane	0.000		0		N.D.		
32) Chloroform	5.225	83	89		N.D.		
34) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P12.d
 Acq On : 9 Nov 2017 1:29 am
 Operator : VOA105:PD
 Sample : 11740446-04D,31,2,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 09 07:18:23 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	5.547	43	96		N.D.	
41) Benzene	5.792	78	644		N.D.	
44) 1,2-Dichloroethane	6.007	62	763		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.398	95	701		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.963	92	755		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.814	91	94		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	10.538	106	475	0.408	ug/L	76
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.429	146	215		N.D.	
101) 1,4-Dichlorobenzene	12.429	146	215		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

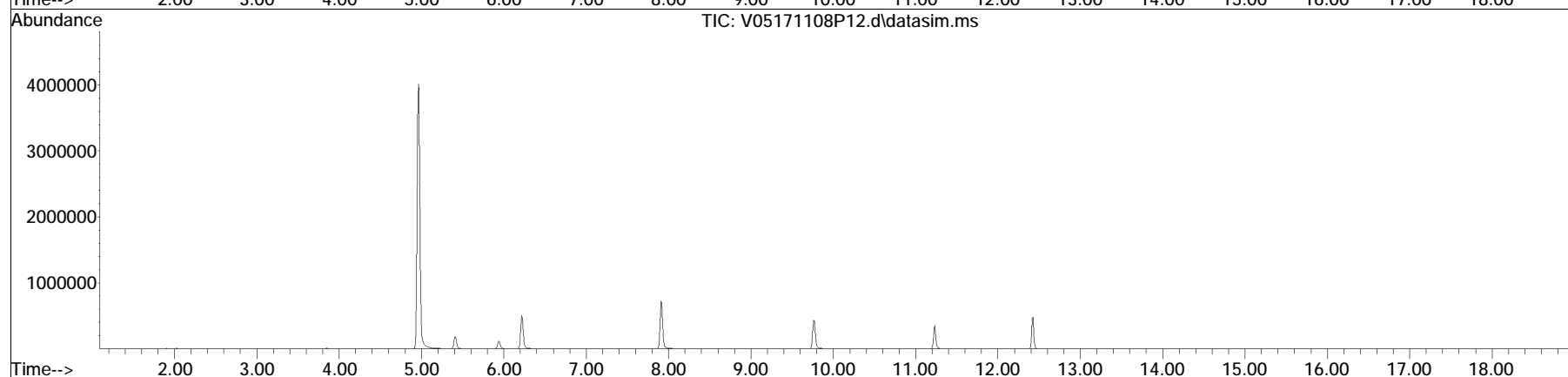
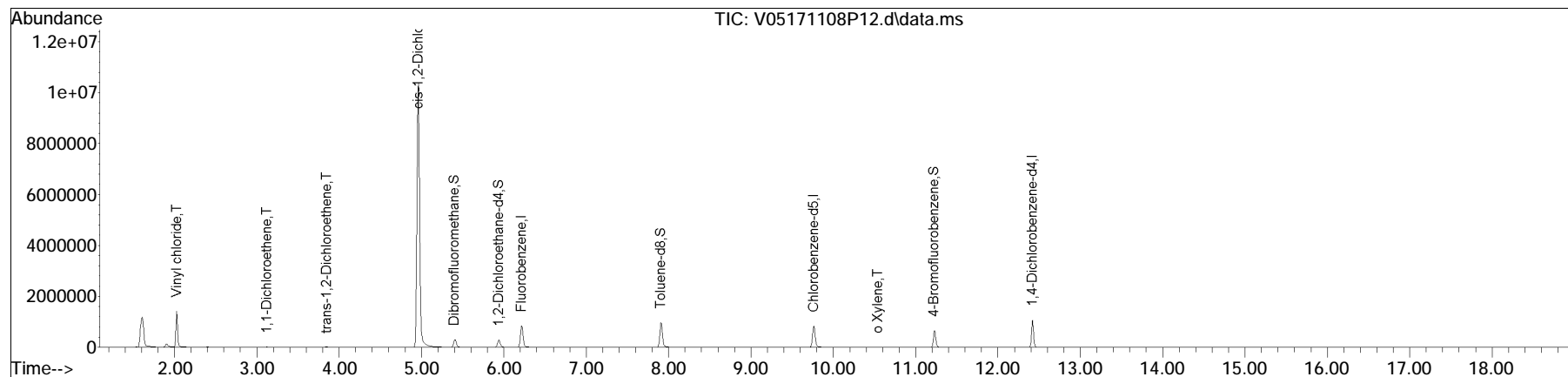
(#) = qualifier out of range (m) = manual integration (+) = signals summed

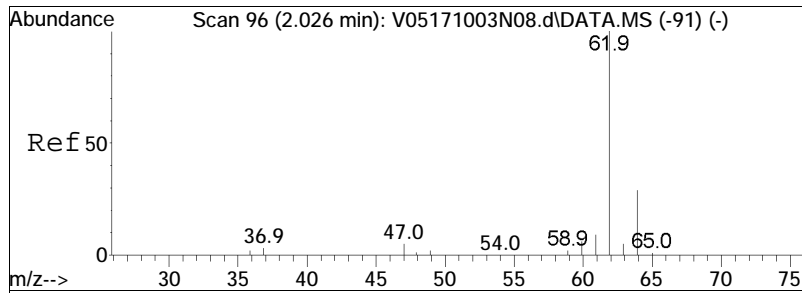
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P12.d
 Acq On : 9 Nov 2017 1:29 am
 Operator : VOA105:PD
 Sample : 11740446-04D,31,2,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 09 07:18:23 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

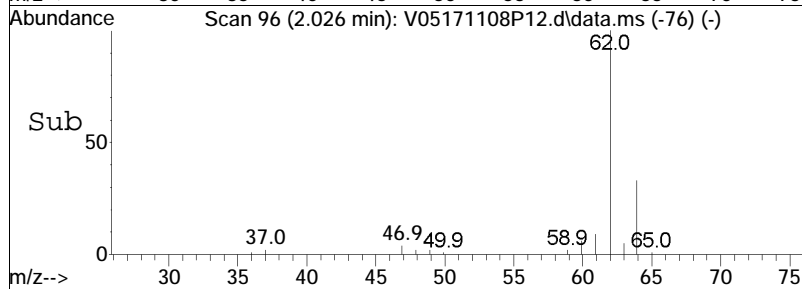
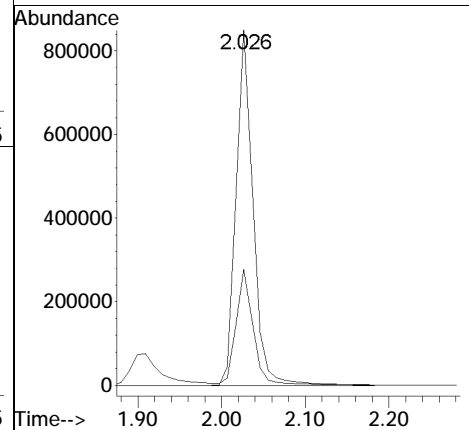
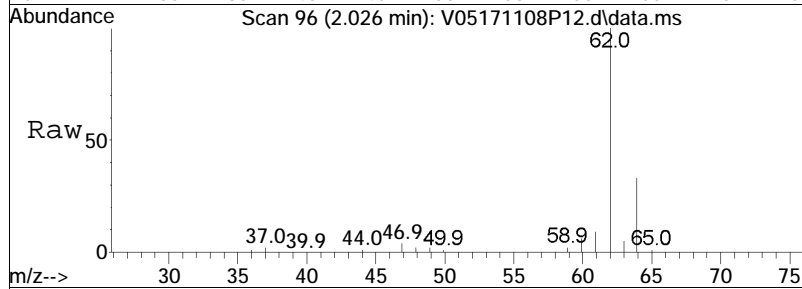
Sub List : 8260-Curve - Megamix plus Diox71108P\V05171108P01.d•

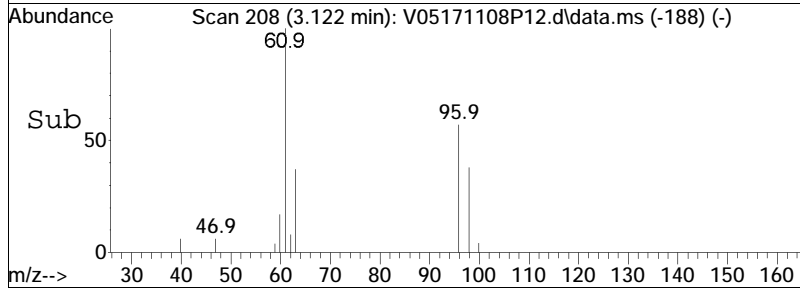
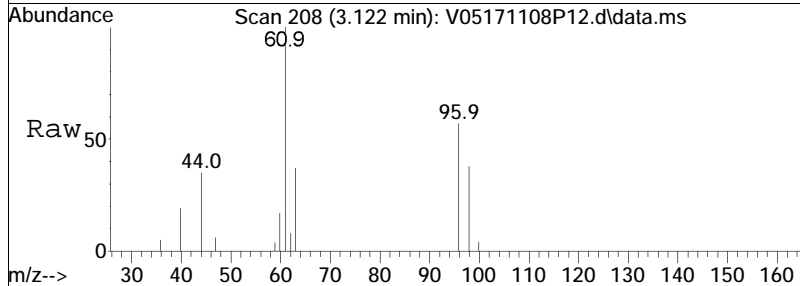
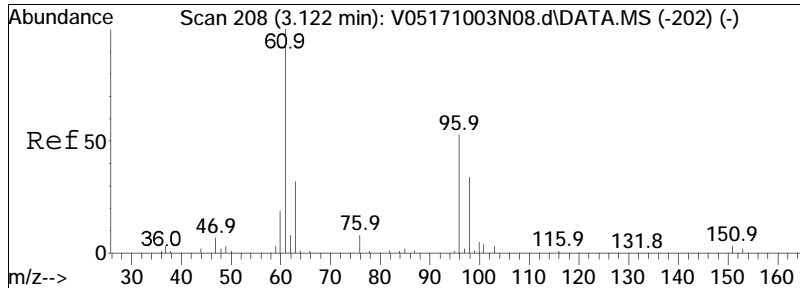




#4
 Vinyl chloride
 Concen: 105.05 ug/L
 RT: 2.026 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V05171108P12.d
 Acq: 9 Nov 2017 1:29 am

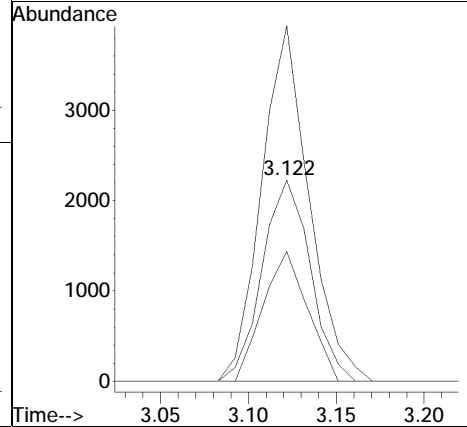
Tgt Ion: 62 Resp: 1207407
 Ion Ratio Lower Upper
 62 100
 64 32.5 13.8 53.8

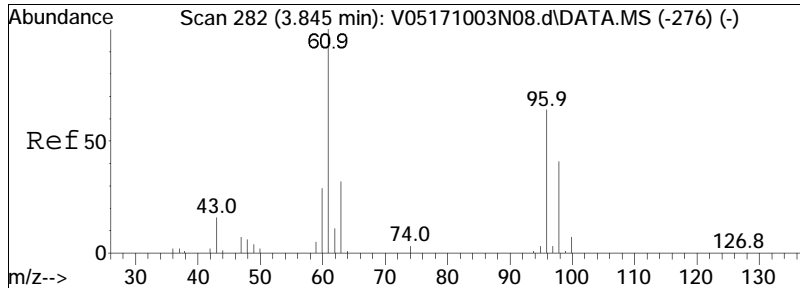




#10
 1,1-Dichloroethene
 Concen: 0.35 ug/L
 RT: 3.122 min Scan# 208
 Delta R.T. -0.000 min
 Lab File: V05171108P12.d
 Acq: 9 Nov 2017 1:29 am

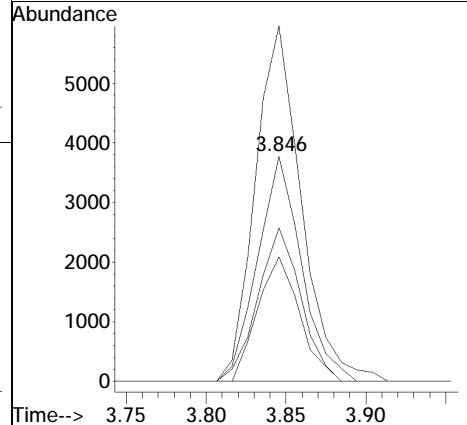
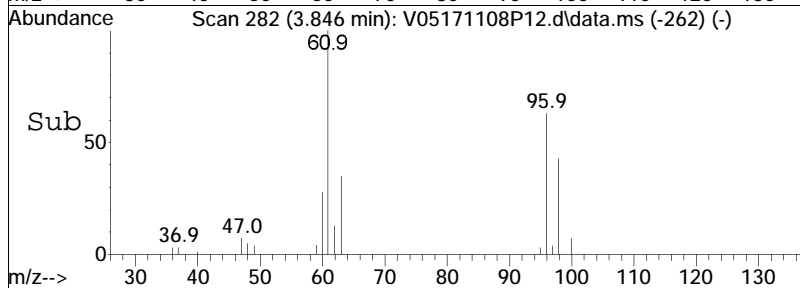
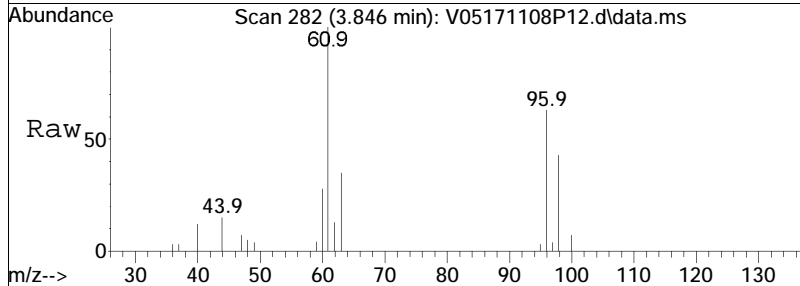
Tgt Ion	Resp	Lower	Upper
96	4252		
96	100		
61	174.0	151.0	226.4
63	59.8	47.7	71.5

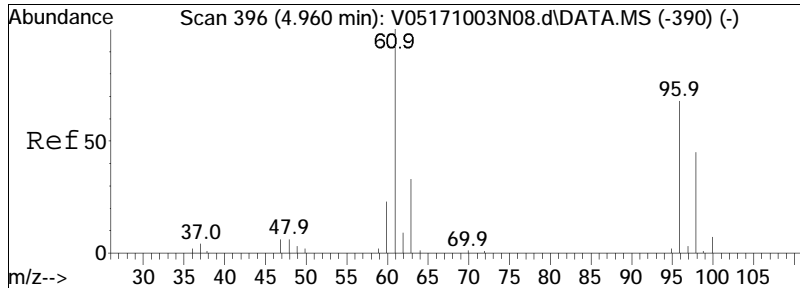




#18
 trans-1,2-Dichloroethene
 Concen: 0.50 ug/L
 RT: 3.846 min Scan# 282
 Delta R.T. -0.000 min
 Lab File: V05171108P12.d
 Acq: 9 Nov 2017 1:29 am

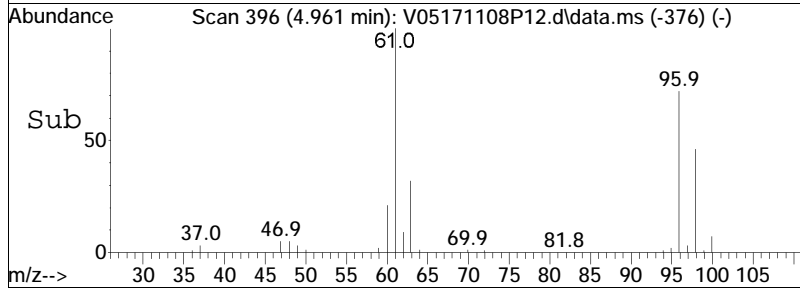
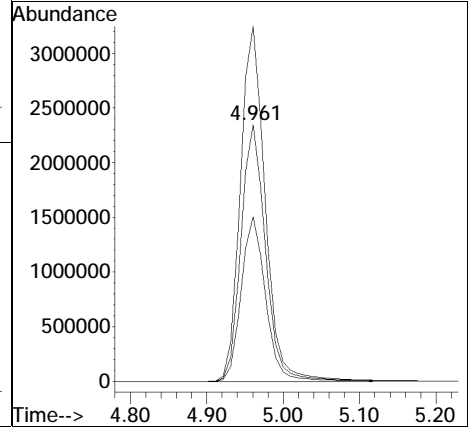
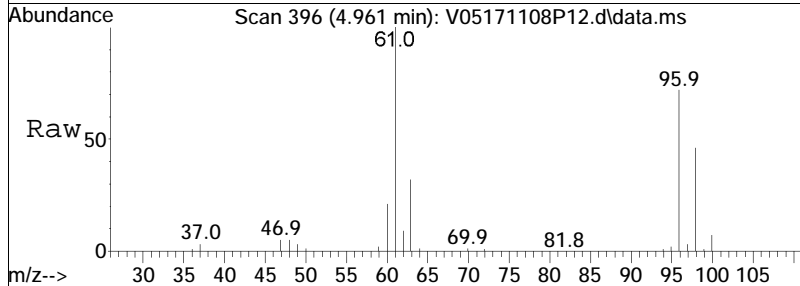
Tgt Ion	Resp	Lower	Upper
96	7207		
61	165.6	102.0	211.8
98	67.0	41.9	87.1
63	53.2	32.6	67.8

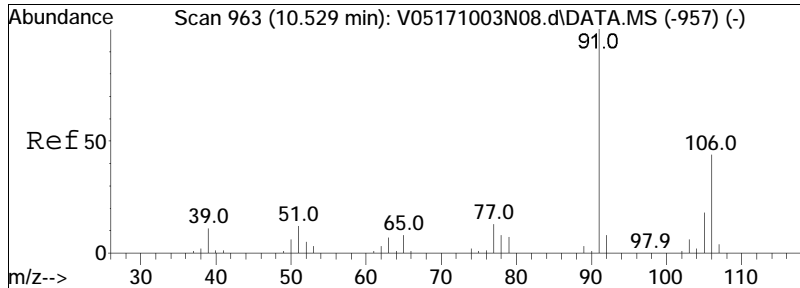




#28
 cis-1,2-Dichloroethene
 Concen: 332.53 ug/L
 RT: 4.961 min Scan# 396
 Delta R.T. -0.000 min
 Lab File: V05171108P12.d
 Acq: 9 Nov 2017 1:29 am

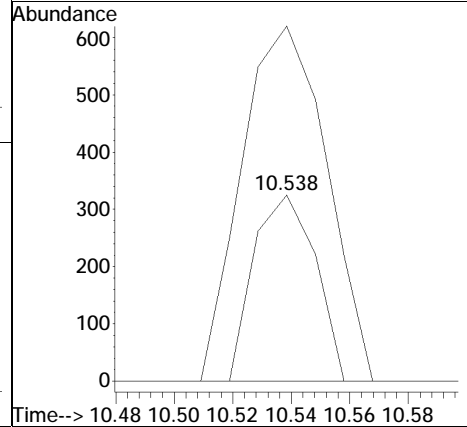
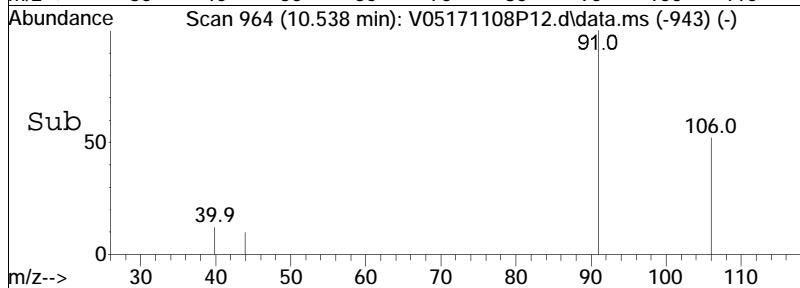
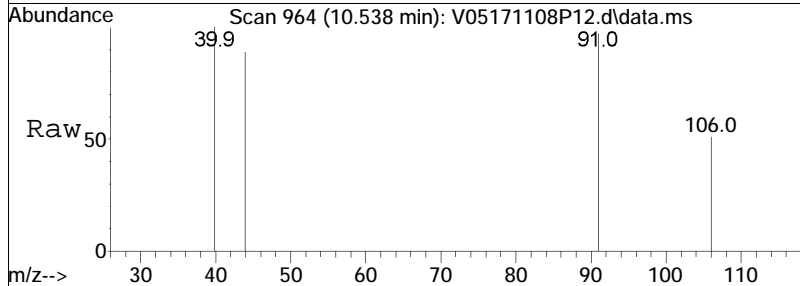
Tgt Ion:	Resp:	Lower	Upper
96	5249392		
Ion Ratio			
96	100		
61	139.9	113.7	170.5
98	64.0	51.2	76.8





#77
 o Xylene
 Concen: 0.41 ug/L
 RT: 10.538 min Scan# 964
 Delta R.T. 0.010 min
 Lab File: V05171108P12.d
 Acq: 9 Nov 2017 1:29 am

Tgt Ion: 106 Resp: 475
 Ion Ratio Lower Upper
 106 100
 91 263.4 178.9 268.3



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171108P12.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 1:29 am Instrument : VOA 105
Sample : 11740446-04D,31,2,10,,a Quant Date : 11/9/2017 7:12 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P13.d
 Acq On : 9 Nov 2017 1:54 am
 Operator : VOA105:PD
 Sample : 11740446-06D,31,1,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 09 07:18:40 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.212	96	826091	10.000	ug/L	0.00
Standard Area 1 = 1085488			Recovery = 76.10%			
59) Chlorobenzene-d5	9.764	117	583599	10.000	ug/L	0.00
Standard Area 1 = 758413			Recovery = 76.95%			
79) 1,4-Dichlorobenzene-d4	12.419	152	263862	10.000	ug/L	0.00
Standard Area 1 = 355962			Recovery = 74.13%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.410	113	208671	8.872	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.72%			
43) 1,2-Dichloroethane-d4	5.938	65	237078	9.157	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.57%			
60) Toluene-d8	7.904	98	748863	10.010	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.10%			
83) 4-Bromofluorobenzene	11.224	95	254362	11.478	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.78%			
Target Compounds						
2) Dichlorodifluoromethane	0.000		0		N.D.	
3) Chloromethane	0.000		0		N.D. d	
4) Vinyl chloride	2.026	62	37269	3.442	ug/L #	64
5) Bromomethane	0.000		0		N.D.	
6) Chloroethane	2.476	64	438		N.D.	
7) Trichlorofluoromethane	0.000		0		N.D.	
10) 1,1-Dichloroethene	3.122	96	1457	0.126	ug/L	98
11) Carbon disulfide	3.151	76	1732		N.D.	
12) Freon-113	0.000		0		N.D.	
15) Methylene chloride	3.689	84	1128	0.085	ug/L	84
17) Acetone	0.000		0		N.D. d	
18) trans-1,2-Dichloroethene	3.845	96	9537	0.696	ug/L	99
19) Methyl acetate	0.000		0		N.D. d	
20) Methyl tert-butyl ether	0.000		0		N.D.	
23) 1,1-Dichloroethane	0.000		0		N.D.	
28) cis-1,2-Dichloroethene	4.960	96	1228152	82.586	ug/L	99
30) Bromochloromethane	0.000		0		N.D.	
31) Cyclohexane	0.000		0		N.D.	
32) Chloroform	5.224	83	112		N.D.	
34) Carbon tetrachloride	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P13.d
 Acq On : 9 Nov 2017 1:54 am
 Operator : VOA105:PD
 Sample : 11740446-06D,31,1,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 09 07:18:40 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	d
41) Benzene	5.801	78	96		N.D.	
44) 1,2-Dichloroethane	6.017	62	479		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.388	95	775		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.764	91	1099		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.429	146	191		N.D.	
101) 1,4-Dichlorobenzene	12.429	146	191		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

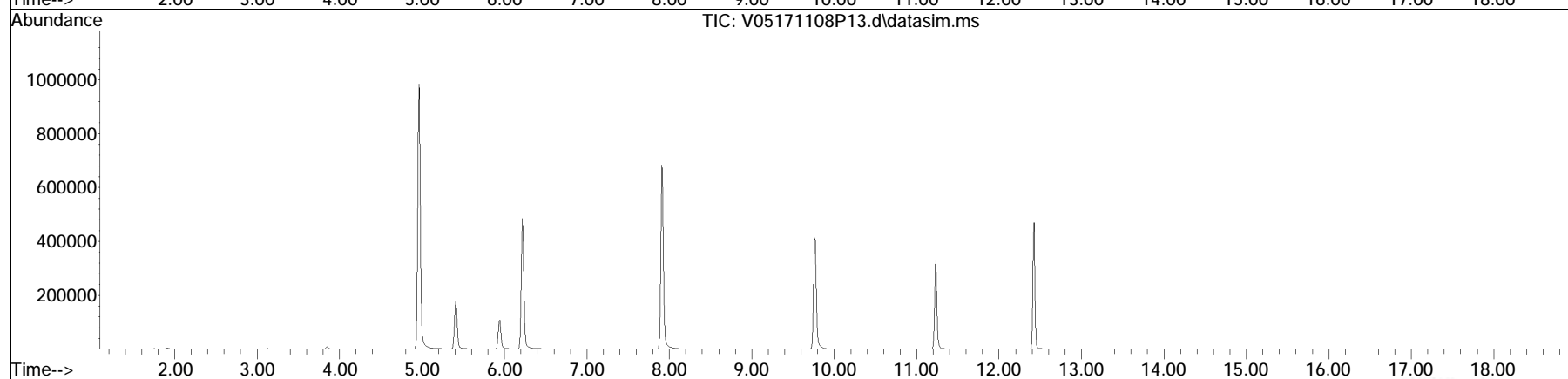
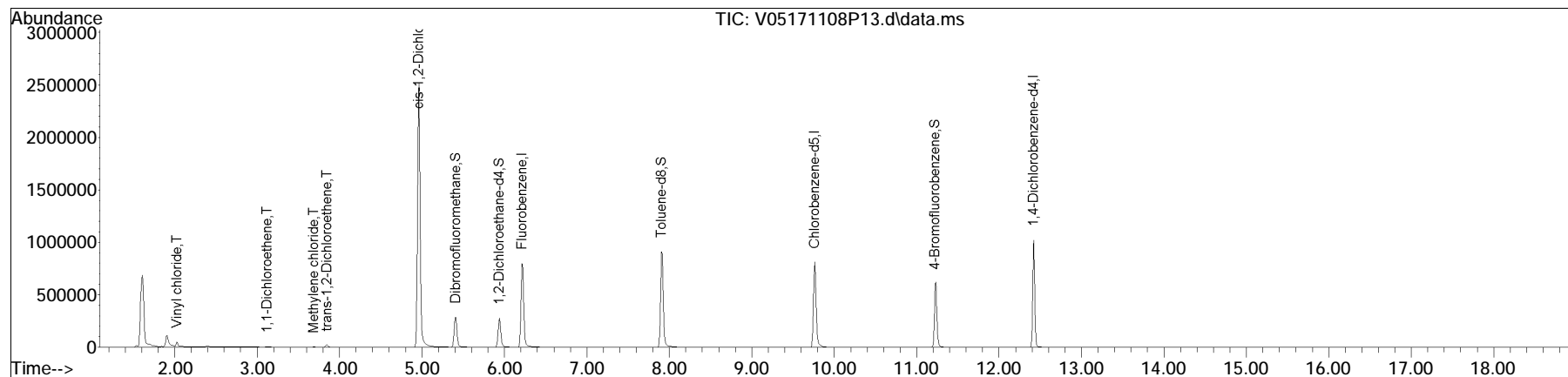
(#) = qualifier out of range (m) = manual integration (+) = signals summed

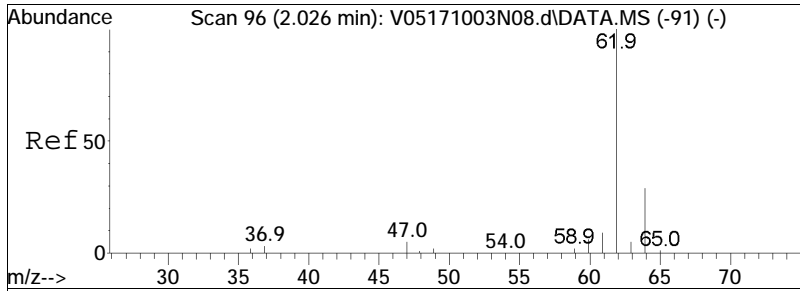
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P13.d
 Acq On : 9 Nov 2017 1:54 am
 Operator : VOA105:PD
 Sample : 11740446-06D,31,1,10,,a
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 09 07:18:40 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

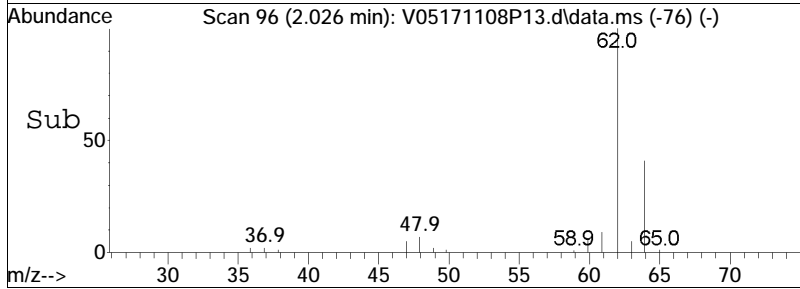
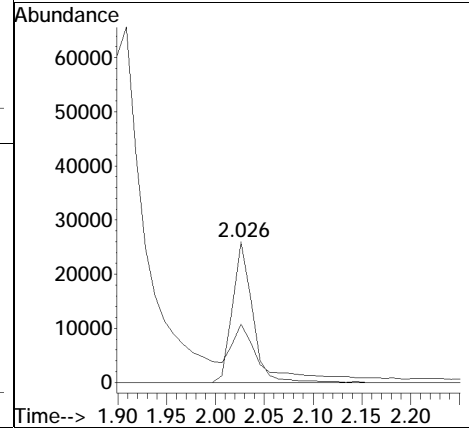
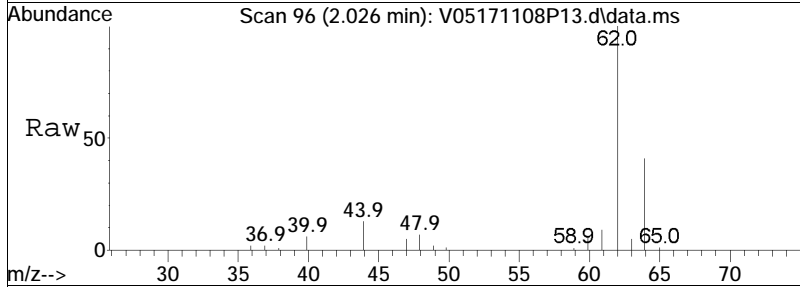
Sub List : 8260-Curve - Megamix plus Diox71108P\V05171108P01.d•

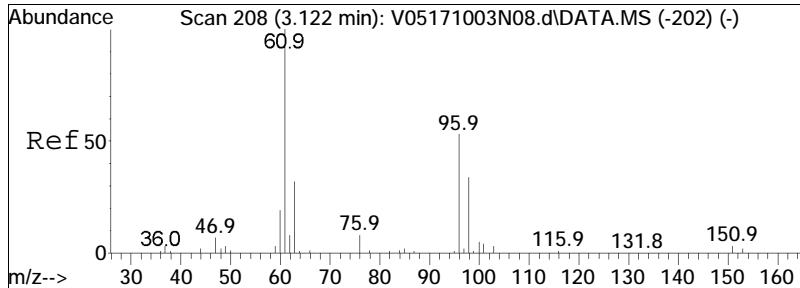




#4
 Vinyl chloride
 Concen: 3.44 ug/L
 RT: 2.026 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V05171108P13.d
 Acq: 9 Nov 2017 1:54 am

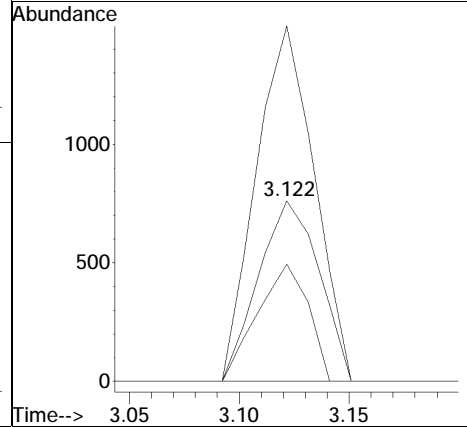
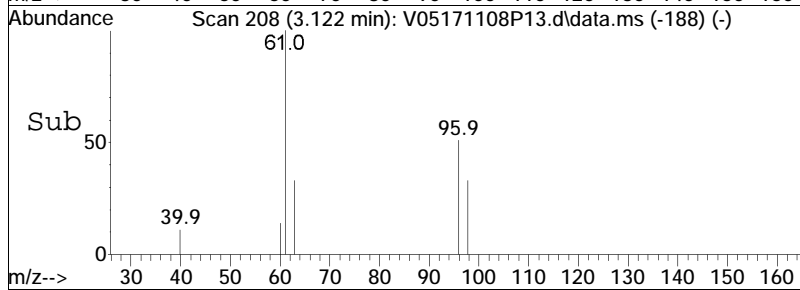
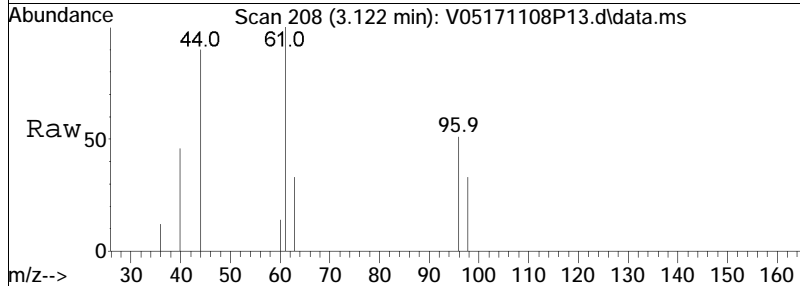
Tgt Ion: 62 Resp: 37269
 Ion Ratio Lower Upper
 62 100
 64 54.4 13.8 53.8#

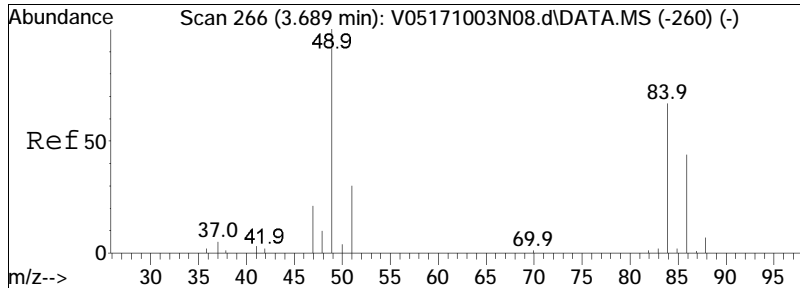




#10
 1,1-Dichloroethene
 Concen: 0.13 ug/L
 RT: 3.122 min Scan# 208
 Delta R.T. -0.000 min
 Lab File: V05171108P13.d
 Acq: 9 Nov 2017 1:54 am

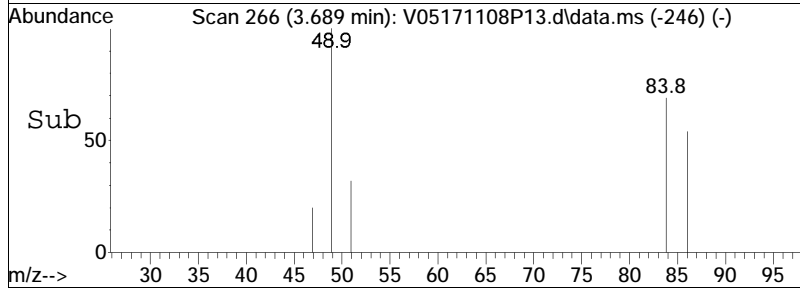
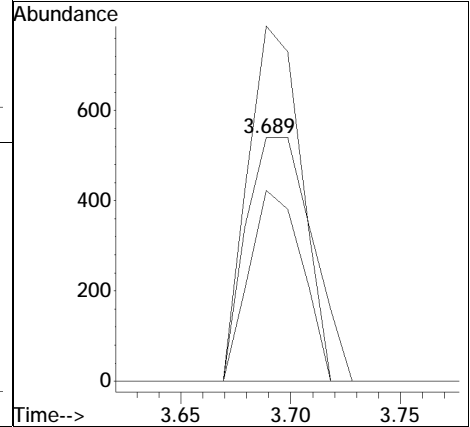
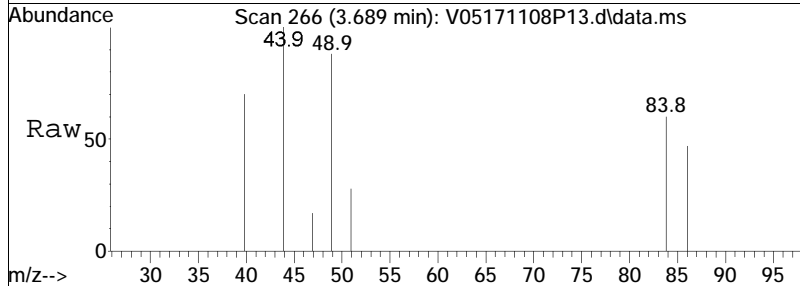
Tgt Ion	Resp	Lower	Upper
96	1457		
Ion Ratio			
96	100		
61	188.9	151.0	226.4
63	54.6	47.7	71.5

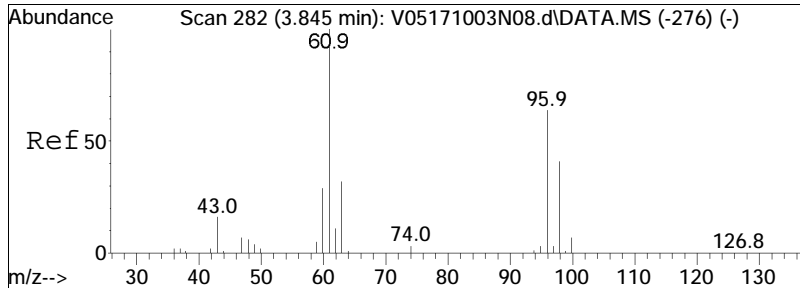




#15
 Methylene chloride
 Concen: 0.09 ug/L
 RT: 3.689 min Scan# 266
 Delta R.T. -0.000 min
 Lab File: V05171108P13.d
 Acq: 9 Nov 2017 1:54 am

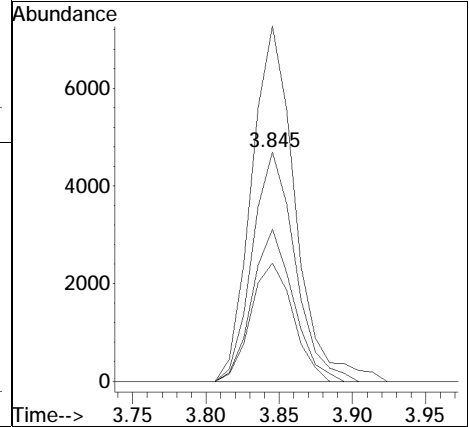
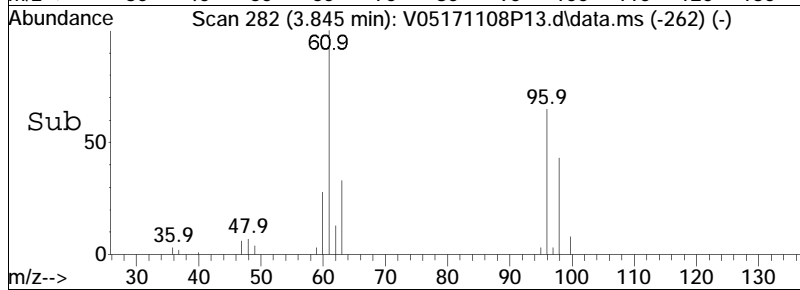
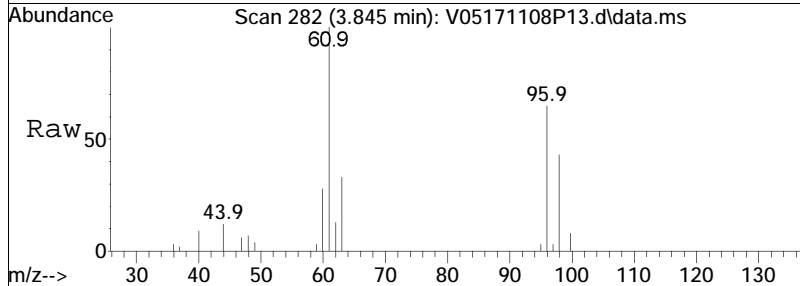
Tgt Ion:	84	Resp:	1128
Ion Ratio	Lower	Upper	
84	100		
86	63.1	41.9	86.9
49	117.9	95.1	197.5

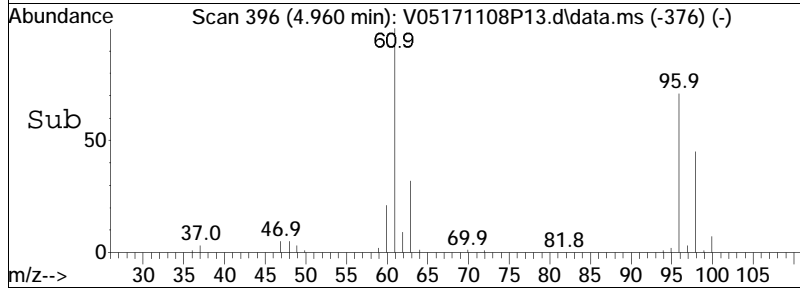
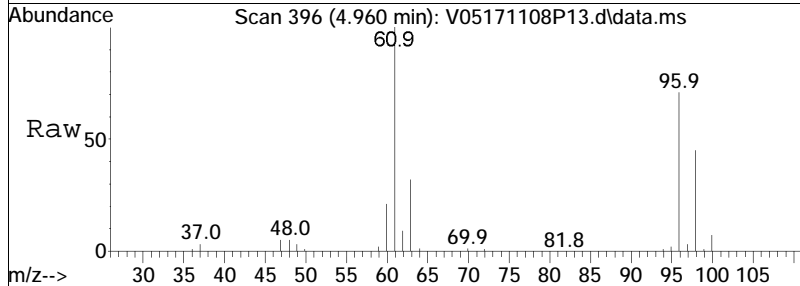
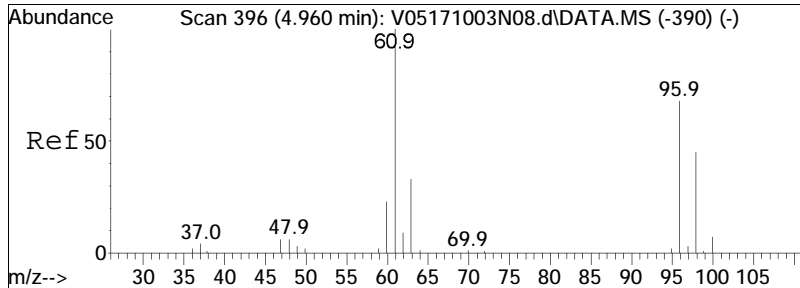




#18
 trans-1,2-Dichloroethene
 Concen: 0.70 ug/L
 RT: 3.845 min Scan# 282
 Delta R.T. -0.000 min
 Lab File: V05171108P13.d
 Acq: 9 Nov 2017 1:54 am

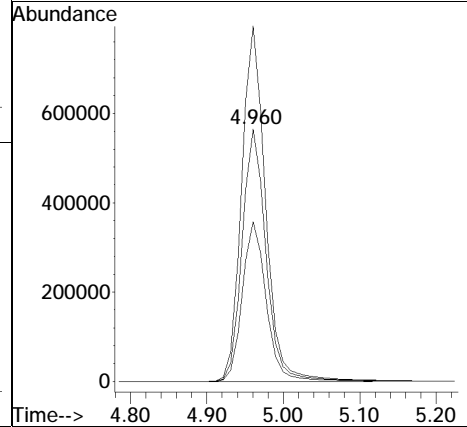
Tgt Ion	Resp	Lower	Upper
96	9537		
96	100		
61	158.1	102.0	211.8
98	63.7	41.9	87.1
63	50.9	32.6	67.8





#28
 cis-1,2-Dichloroethene
 Concen: 82.59 ug/L
 RT: 4.960 min Scan# 396
 Delta R.T. -0.000 min
 Lab File: V05171108P13.d
 Acq: 9 Nov 2017 1:54 am

Tgt Ion:	Resp:	Lower	Upper
96	1228152		
96	100		
61	140.9	113.7	170.5
98	63.5	51.2	76.8



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171108P13.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 1:54 am Instrument : VOA 105
Sample : 11740446-06D,31,1,10,,a Quant Date : 11/9/2017 7:12 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P14.d
 Acq On : 9 Nov 2017 2:19 am
 Operator : VOA105:PD
 Sample : 11740446-03D,31,1,10,,a2
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 09 07:19:07 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.212	96	797313	10.000	ug/L	0.00	
Standard Area 1 = 1085488			Recovery =	73.45%			
59) Chlorobenzene-d5	9.765	117	561323	10.000	ug/L	0.00	
Standard Area 1 = 758413			Recovery =	74.01%			
79) 1,4-Dichlorobenzene-d4	12.419	152	260168	10.000	ug/L	0.00	
Standard Area 1 = 355962			Recovery =	73.09%			
System Monitoring Compounds							
36) Dibromofluoromethane	5.410	113	202762	8.932	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	89.32%			
43) 1,2-Dichloroethane-d4	5.939	65	231421	9.261	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	92.61%			
60) Toluene-d8	7.914	98	727034	10.103	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.03%			
83) 4-Bromofluorobenzene	11.234	95	245426	11.232	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	112.32%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	0.000		0		N.D. d		
4) Vinyl chloride	2.026	62	107163	10.254	ug/L	87	
5) Bromomethane	0.000		0		N.D.		
6) Chloroethane	2.476	64	218		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	3.122	96	1025	0.092	ug/L #	88	
11) Carbon disulfide	3.151	76	1873		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	3.689	84	839		N.D.		
17) Acetone	0.000		0		N.D. d		
18) trans-1,2-Dichloroethene	3.845	96	6302	0.477	ug/L	96	
19) Methyl acetate	0.000		0		N.D. d		
20) Methyl tert-butyl ether	0.000		0		N.D.		
23) 1,1-Dichloroethane	0.000		0		N.D.		
28) cis-1,2-Dichloroethene	4.961	96	1369517	95.416	ug/L	99	
30) Bromochloromethane	0.000		0		N.D.		
31) Cyclohexane	0.000		0		N.D.		
32) Chloroform	0.000		0		N.D.		
34) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P14.d
 Acq On : 9 Nov 2017 2:19 am
 Operator : VOA105:PD
 Sample : 11740446-03D,31,1,10,,a2
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 09 07:19:07 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	5.538	43	96		N.D.	
41) Benzene	5.802	78	300		N.D.	
44) 1,2-Dichloroethane	6.017	62	479		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	d
48) Trichloroethene	6.389	95	1166321	73.024	ug/L	96
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.963	92	447		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	9.765	91	1298		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

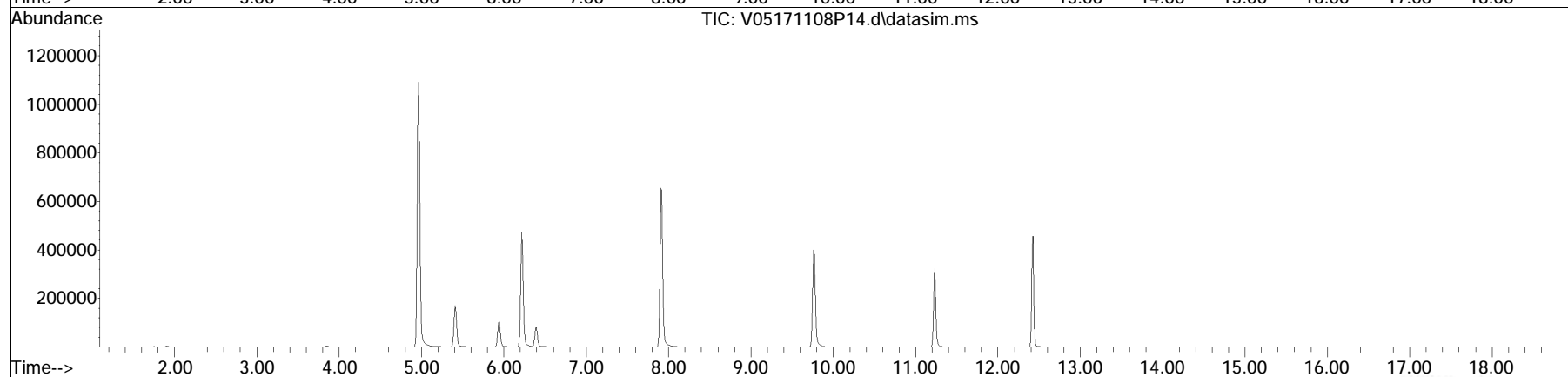
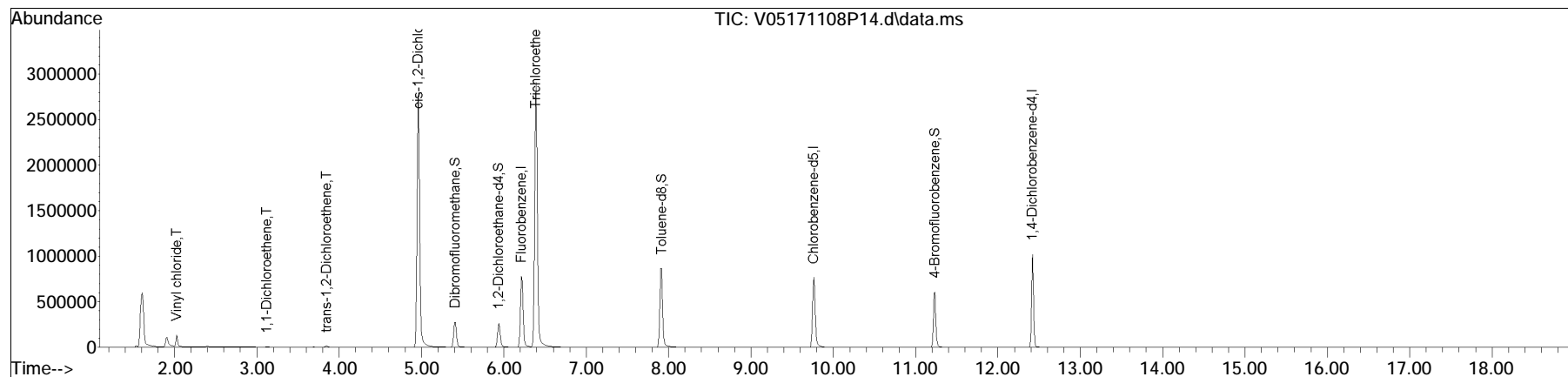
(#) = qualifier out of range (m) = manual integration (+) = signals summed

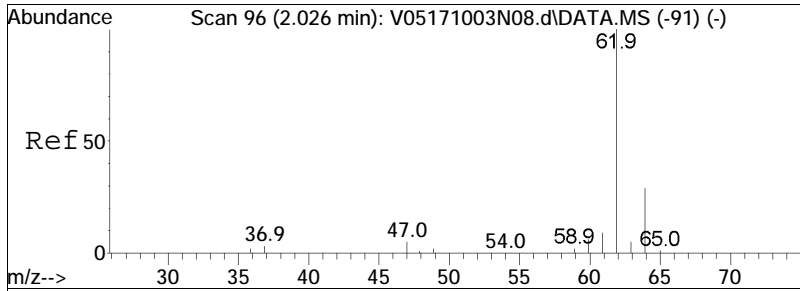
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P14.d
 Acq On : 9 Nov 2017 2:19 am
 Operator : VOA105:PD
 Sample : 11740446-03D,31,1,10,,a2
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 09 07:19:07 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

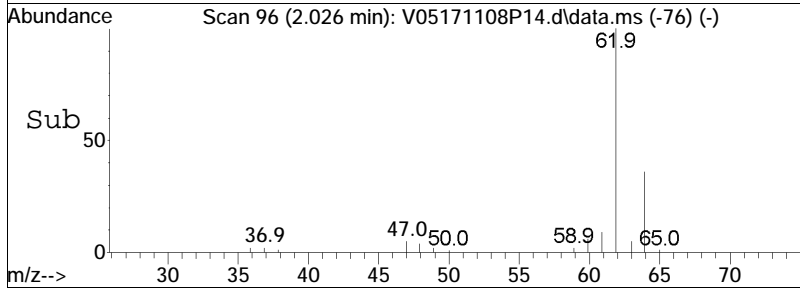
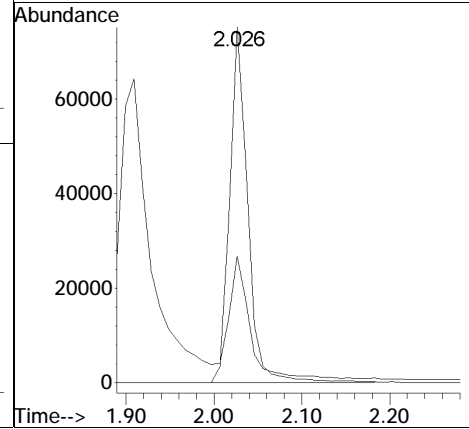
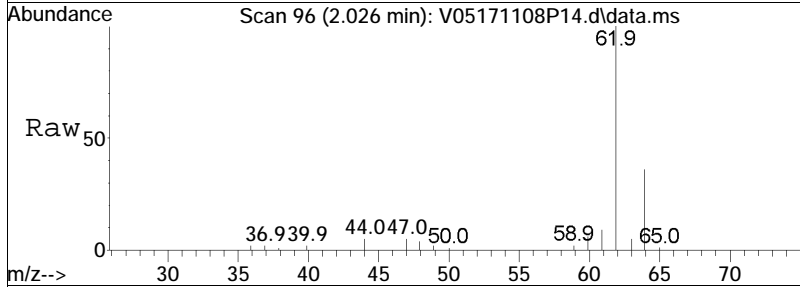
Sub List : 8260-Curve - Megamix plus Diox71108P\V05171108P01.d•

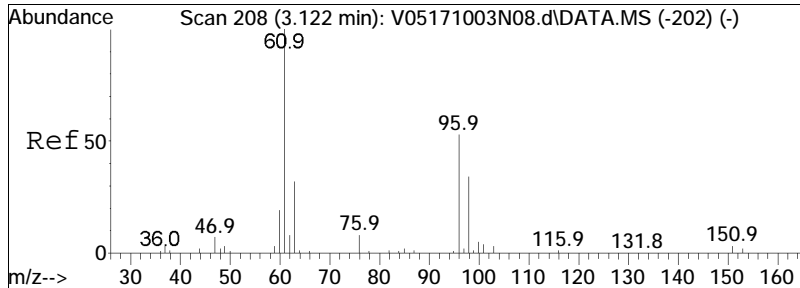




#4
 Vinyl chloride
 Concen: 10.25 ug/L
 RT: 2.026 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V05171108P14.d
 Acq: 9 Nov 2017 2:19 am

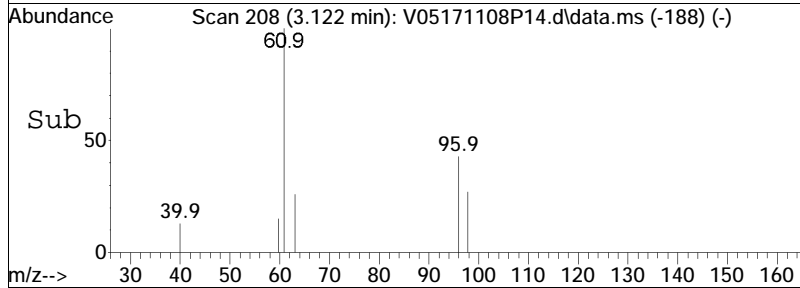
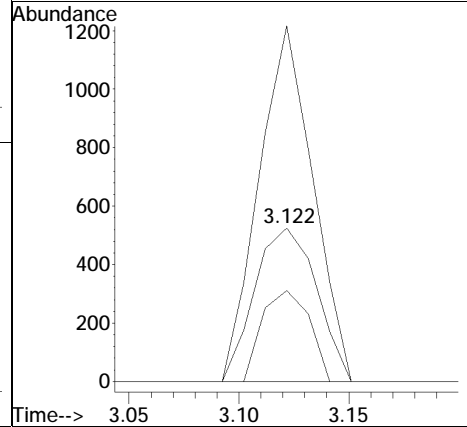
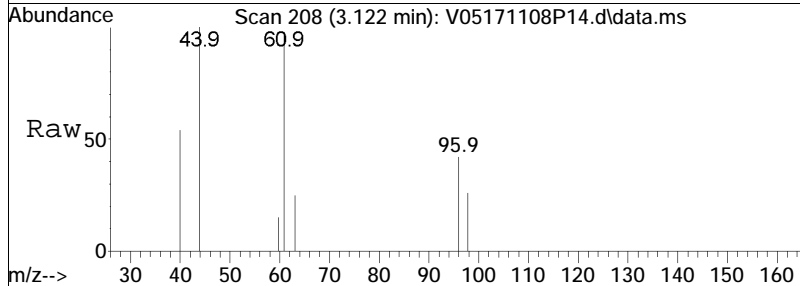
Tgt Ion: 62 Resp: 107163
 Ion Ratio Lower Upper
 62 100
 64 41.2 13.8 53.8

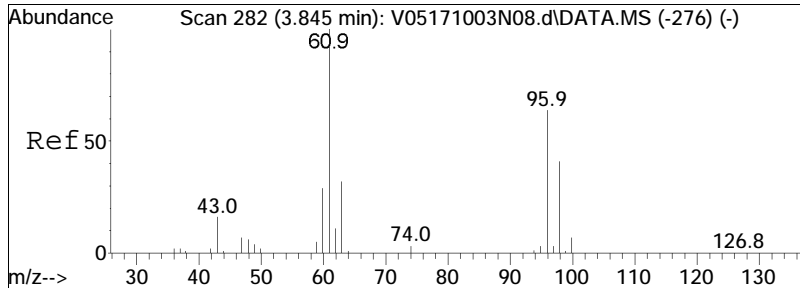




#10
 1,1-Dichloroethene
 Concen: 0.09 ug/L
 RT: 3.122 min Scan# 208
 Delta R.T. -0.000 min
 Lab File: V05171108P14.d
 Acq: 9 Nov 2017 2:19 am

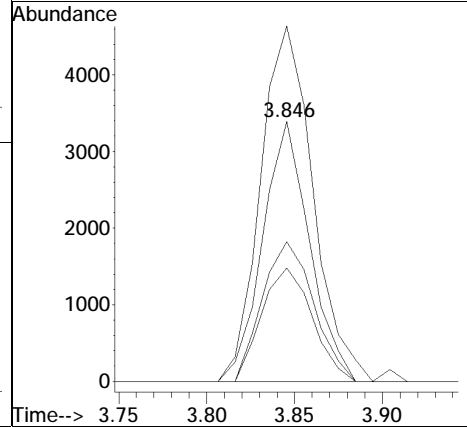
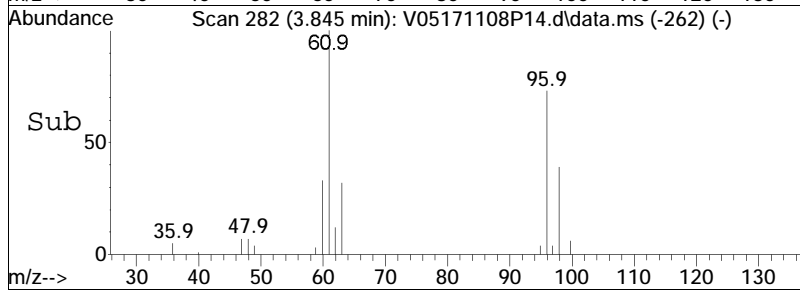
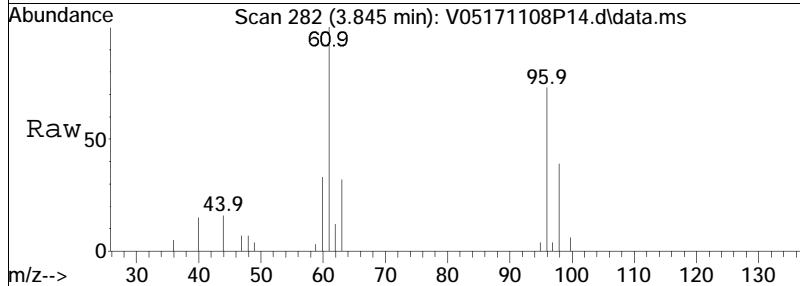
Tgt Ion	Resp	Lower	Upper
96	1025		
96	100		
61	202.7	151.0	226.4
63	45.6	47.7	71.5#

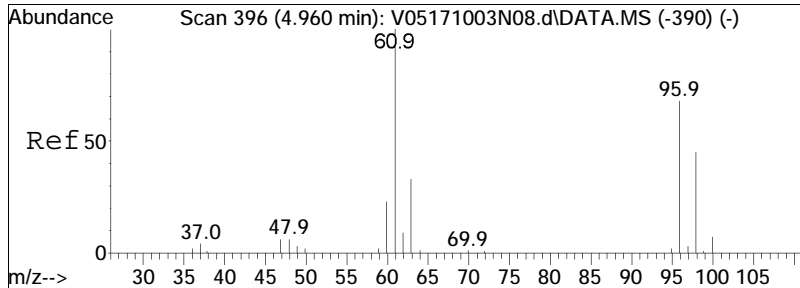




#18
 trans-1,2-Dichloroethene
 Concen: 0.48 ug/L
 RT: 3.845 min Scan# 282
 Delta R.T. -0.000 min
 Lab File: V05171108P14.d
 Acq: 9 Nov 2017 2:19 am

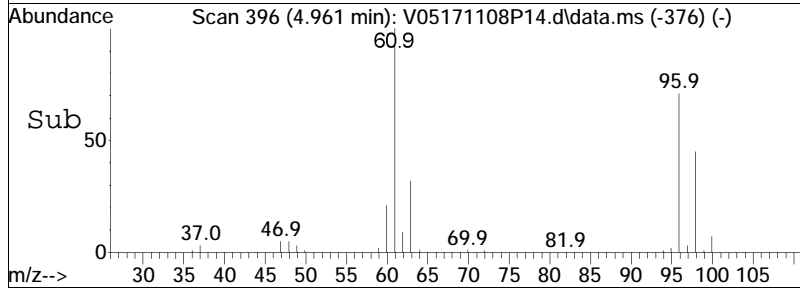
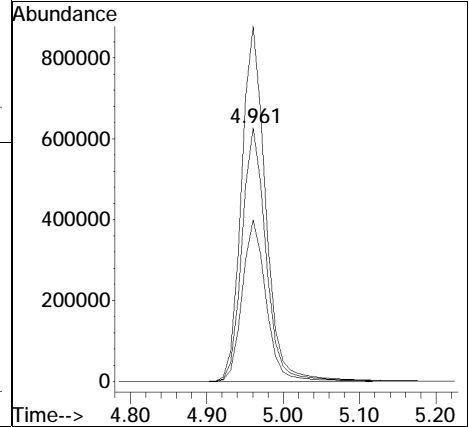
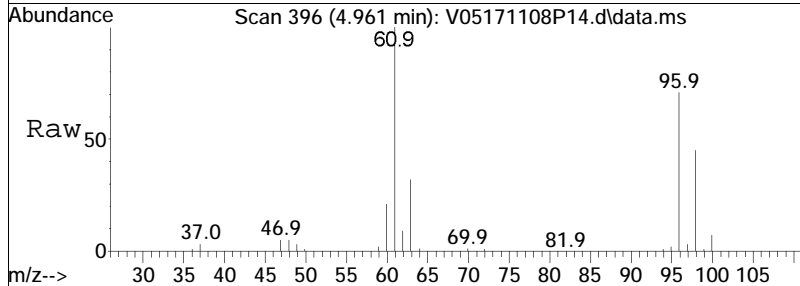
Tgt Ion	Resp	Lower	Upper
96	6302		
96	100		
61	154.1	102.0	211.8
98	58.6	41.9	87.1
63	47.0	32.6	67.8

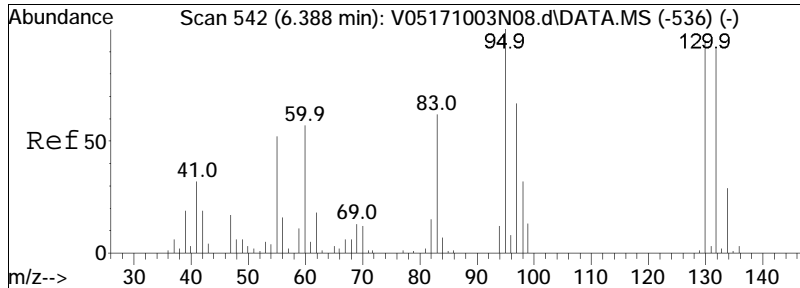




#28
 cis-1,2-Dichloroethene
 Concen: 95.42 ug/L
 RT: 4.961 min Scan# 396
 Delta R.T. -0.000 min
 Lab File: V05171108P14.d
 Acq: 9 Nov 2017 2:19 am

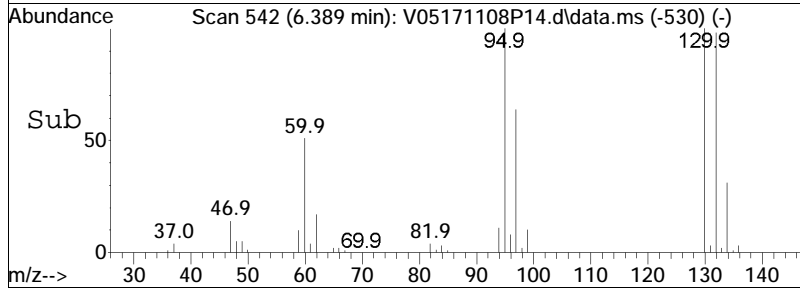
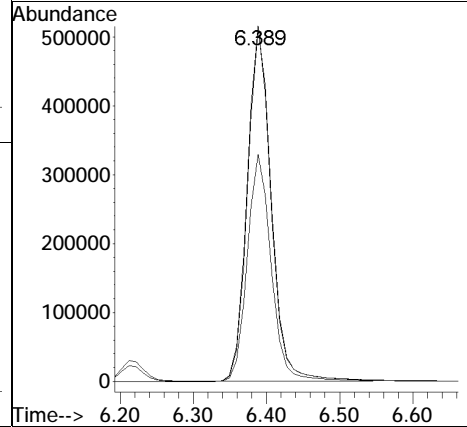
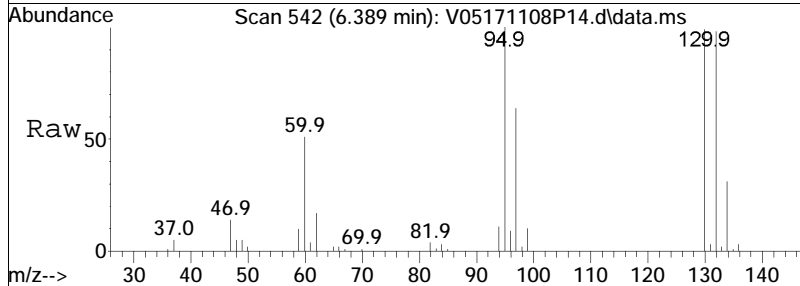
Tgt Ion	Resp	Lower	Upper
96	1369517		
61	140.8	113.7	170.5
98	63.5	51.2	76.8





#48
 Trichloroethene
 Concen: 73.02 ug/L
 RT: 6.389 min Scan# 542
 Delta R.T. -0.000 min
 Lab File: V05171108P14.d
 Acq: 9 Nov 2017 2:19 am

Tgt Ion	Resp	Lower	Upper
95	1166321		
95	100		
97	64.4	53.5	80.3
130	99.9	75.9	113.9



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171108P14.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 2:19 am Instrument : VOA 105
Sample : 11740446-03D,31,1,10,,a2 Quant Date : 11/9/2017 7:12 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A12.d
 Acq On : 9 Nov 2017 14:24
 Operator : VOA105:AD
 Sample : 11740446-04D2,31,0.4,10,,c
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 09 15:38:38 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171109A\V05171109A02.d
 Sub List : 8260-PCEbreak - PCE Break Down

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.212	96	654660	10.000	ug/L	0.00
Standard Area 1 = 914886			Recovery =	71.56%		
59) Chlorobenzene-d5	9.764	117	461787	10.000	ug/L	0.00
Standard Area 1 = 656090			Recovery =	70.38%		
79) 1,4-Dichlorobenzene-d4	12.419	152	209277	10.000	ug/L	0.00
Standard Area 1 = 321389			Recovery =	65.12%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.401	113	167167	8.968	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	89.68%		
43) 1,2-Dichloroethane-d4	5.939	65	192152	9.365	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.65%		
60) Toluene-d8	7.904	98	597000	10.085	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.85%		
83) 4-Bromofluorobenzene	11.224	95	196932	11.205	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	112.05%		
Target Compounds						
4) Vinyl chloride	2.026	62	162180	18.900	ug/L	54
10) 1,1-Dichloroethene	3.112	96	499	N.D.		
18) trans-1,2-Dichloroethene	3.845	96	945	0.087	ug/L	94
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.960	96	713333	60.529	ug/L	99
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
44) 1,2-Dichloroethane	6.007	62	373	N.D.		
48) Trichloroethene	6.369	95	190	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		

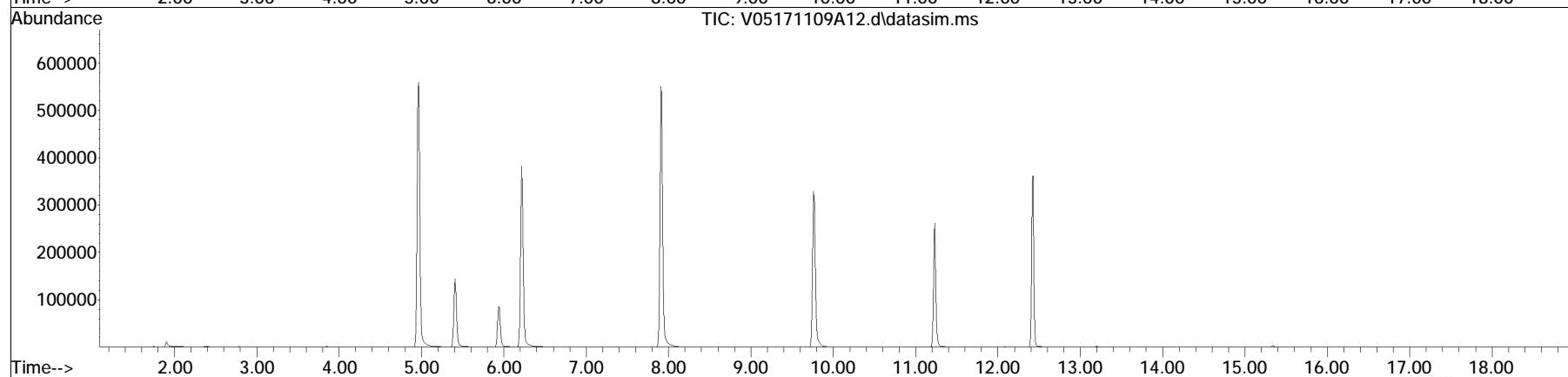
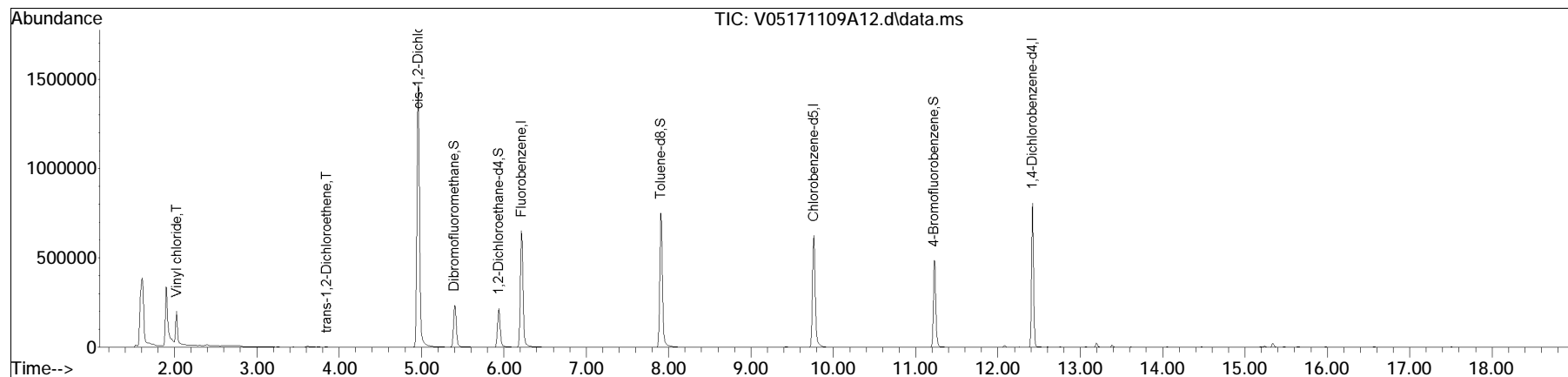
(#) = qualifier out of range (m) = manual integration (+) = signals summed

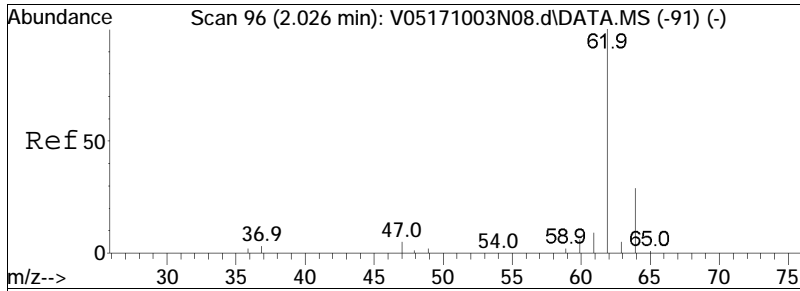
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171109A\
Data File : V05171109A12.d
Acq On : 9 Nov 2017 14:24
Operator : VOA105:AD
Sample : 11740446-04D2,31,0.4,10,,c
Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 09 15:38:38 2017
Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 26 21:10:14 2017
Response via : Initial Calibration

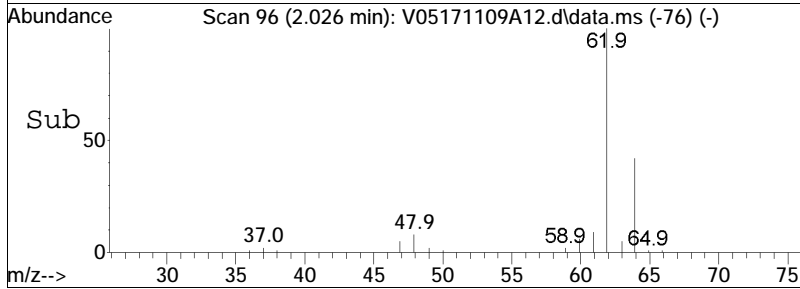
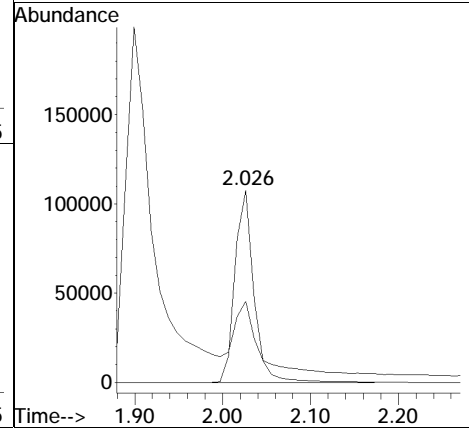
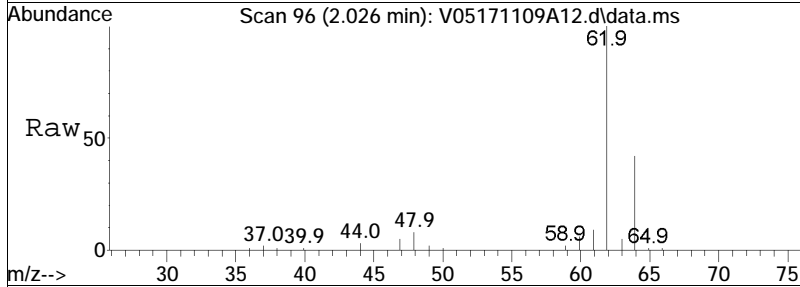
Sub List : 8260-PCEbreak - PCE Break Down71109A\V05171109A02.d•

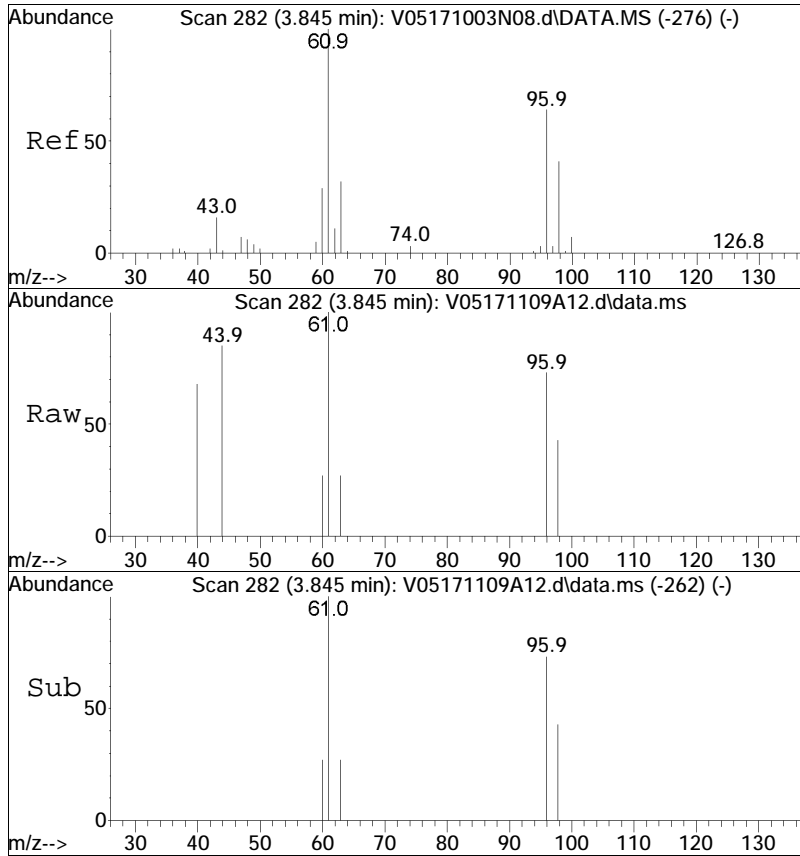




#4
 Vinyl chloride
 Concen: 18.90 ug/L
 RT: 2.026 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V05171109A12.d
 Acq: 9 Nov 2017 14:24

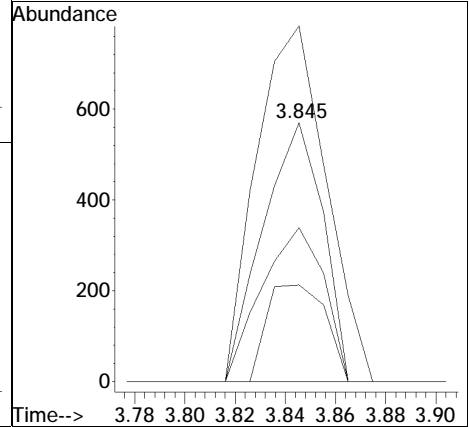
Tgt Ion: 62 Resp: 162180
 Ion Ratio Lower Upper
 62 100
 64 59.9 13.8 53.8#

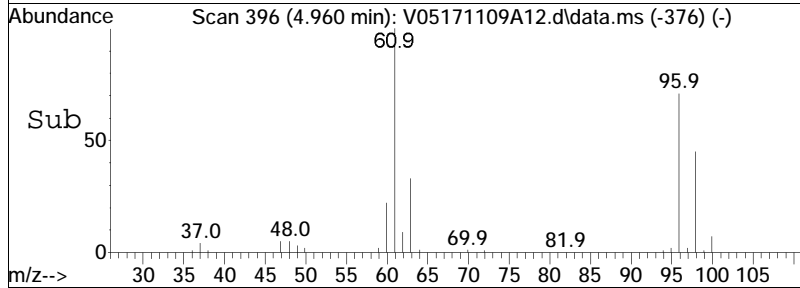
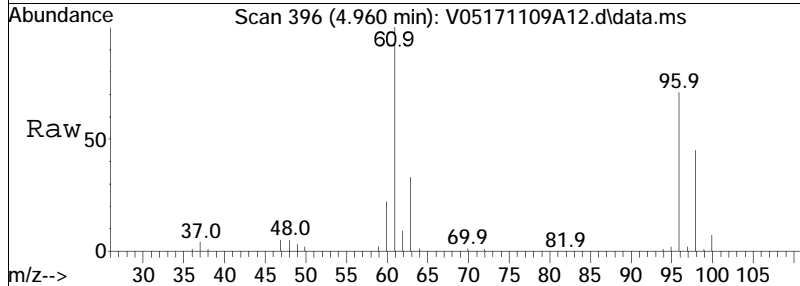
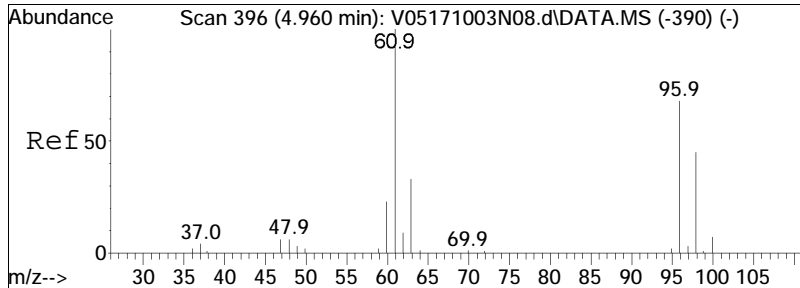




#18
 trans-1,2-Dichloroethene
 Concen: 0.09 ug/L
 RT: 3.845 min Scan# 282
 Delta R.T. -0.000 min
 Lab File: V05171109A12.d
 Acq: 9 Nov 2017 14:24

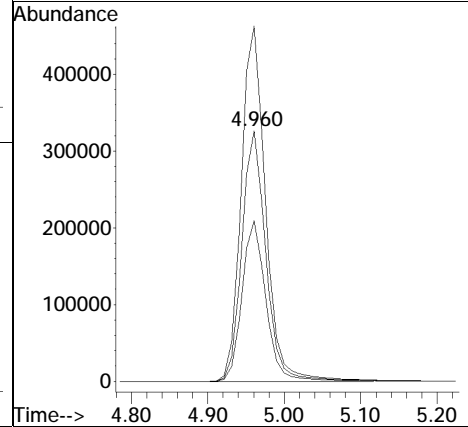
Tgt Ion	Resp	Lower	Upper
96	100		
61	159.9	102.0	211.8
98	61.8	41.9	87.1
63	36.7	32.6	67.8





#28
 cis-1,2-Dichloroethene
 Concen: 60.53 ug/L
 RT: 4.960 min Scan# 396
 Delta R.T. -0.000 min
 Lab File: V05171109A12.d
 Acq: 9 Nov 2017 14:24

Tgt Ion:	96	Resp:	713333
Ion Ratio	Lower	Upper	
96	100		
61	143.5	113.7	170.5
98	64.0	51.2	76.8



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171109A12.d Operator : VOA105:AD
Date Inj'd : 11/9/2017 14:24 Instrument : VOA 105
Sample : 11740446-04D2,31,0.4,10,,cQuant Date : 11/9/2017 3:38 pm

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Instrument ID : VOA105
Calibration dates : 10/26/17 13:02 10/26/17 16:49

Lab Number : L1740446
Project Number : 06.6448
Ical Ref : ICAL14135

Calibration Files

L11 =V05171026N03.d L1 =V05171026N04.d L2 =V05171026N07.d L3 =V05171026N08.d L4 =V05171026N09.d
 L6 =V05171026N10.d L8 =V05171026N11.d L10 =V05171026N12.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----									
2) T Dichlorodifluo		0.133	0.163	0.166	0.173	0.164	0.153	0.149	0.157	8.44
3) T Chloromethane		0.146	0.149	0.140	0.138	0.136	0.138	0.143	0.141	3.27
4) T Vinyl chloride	0.099	0.107	0.133	0.136	0.145	0.145	0.143	0.141	0.131	13.74
5) T Bromomethane		0.052	0.064	0.063	0.074	0.079	0.078	0.080	0.070	14.89
6) T Chloroethane		0.088	0.084	0.082	0.080	0.076	0.071	0.054	0.077	15.01
7) T Trichlorofluor		0.258	0.317	0.319	0.323	0.302	0.272	0.254	0.292	10.28
8) T Ethyl ether		0.045	0.049	0.052	0.051	0.051	0.049	0.048	0.049	4.77
10) T 1,1-Dichloroet		0.116	0.141	0.143	0.151	0.149	0.141	0.140	0.140	8.08
11) T Carbon disulfide		0.304	0.358	0.373	0.391	0.392	0.384	0.388	0.370	8.54
12) T Freon-113		0.132	0.157	0.163	0.171	0.166	0.157	0.154	0.157	8.10
13) T Iodomethane		0.025	0.065	0.124	0.166	0.187	0.181	0.184	*L	0.9972
14) T Acrolein			0.007	0.010	0.011	0.013	0.013	0.013	0.011	19.94
15) T Methylene chlo		0.169	0.166	0.161	0.161	0.159	0.153	0.152	0.160	3.98
17) T Acetone		0.035	0.025	0.023	0.022	0.023	0.023	0.022	0.025	18.70
18) T trans-1,2-Dich		0.137	0.161	0.168	0.179	0.176	0.170	0.170	0.166	8.37
19) T Methyl acetate		0.048	0.048	0.050	0.049	0.053	0.053	0.051	0.050	4.37
20) T Methyl tert butyl ether		0.186	0.226	0.278	0.287	0.304	0.297	0.292	0.267	16.56
21) T tert-Butyl alc		0.003	0.004	0.004	0.004	0.005	0.005	0.005	0.004	16.72
22) T Diisopropyl ether		0.279	0.329	0.417	0.448	0.470	0.465	0.461	0.410	18.46
23) T 1,1-Dichloroet		0.257	0.304	0.308	0.315	0.313	0.304	0.302	0.300	6.63
24) T Halothane		0.106	0.134	0.138	0.143	0.143	0.137	0.137	0.134	9.65
25) T Acrylonitrile		0.013	0.021	0.024	0.024	0.026	0.026	0.026	*L	0.9996
26) T Ethyl tert-but		0.197	0.248	0.320	0.341	0.359	0.353	0.350	*L	0.9996
27) T Vinyl acetate		0.146	0.202	0.267	0.280	0.299	0.294	0.289	*L	0.9995
28) T cis-1,2-Dichlo		0.143	0.175	0.188	0.192	0.192	0.186	0.185	0.180	9.65
29) T 2,2-Dichloropr		0.204	0.247	0.276	0.287	0.289	0.275	0.278	0.265	11.38
30) T Bromochloromet		0.068	0.085	0.087	0.086	0.086	0.082	0.078	0.082	8.31
31) T Cyclohexane		0.135	0.189	0.249	0.273	0.271	0.267	0.266	*L	0.9997
32) T Chloroform		0.293	0.347	0.345	0.347	0.340	0.322	0.315	0.330	6.31
33) T Ethyl acetate		0.045	0.063	0.071	0.071	0.079	0.079	0.077	0.069	17.51
34) T Carbon tetrach		0.223	0.273	0.302	0.316	0.313	0.293	0.288	0.287	11.14
35) T Tetrahydrofuran		0.010	0.024	0.025	0.025	0.027	0.027	0.026	*L	0.9996
36) S Dibromofluoromethane	0.291	0.293	0.294	0.292	0.285	0.282	0.274	0.266	0.285	3.55
37) T 1,1,1-Trichlor		0.267	0.315	0.331	0.346	0.339	0.320	0.313	0.319	8.13
39) T 2-Butanone		0.018	0.030	0.032	0.029	0.033	0.032	0.031	0.029	17.24
40) T 1,1-Dichloropr		0.167	0.215	0.256	0.274	0.272	0.261	0.258	0.243	15.98
41) T Benzene		0.504	0.626	0.669	0.689	0.682	0.657	0.647	0.639	9.90



Initial Calibration Summary

Form 6

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Instrument ID : VOA105
Calibration dates : 10/26/17 13:02 10/26/17 16:49

Lab Number : L1740446
Project Number : 06.6448
Ical Ref : ICAL14135

Calibration Files

L11 =V05171026N03.d L1 =V05171026N04.d L2 =V05171026N07.d L3 =V05171026N08.d L4 =V05171026N09.d
 L6 =V05171026N10.d L8 =V05171026N11.d L10 =V05171026N12.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
42) T Tertiary-Amyl Methyl Ether		0.162	0.207	0.269	0.286	0.309	0.304	0.301	*L	0.9994
43) S 1,2-Dichloroethane-d4	0.323	0.332	0.332	0.332	0.308	0.302	0.294	0.285	0.313	5.98
44) T 1,2-Dichloroet		0.220	0.228	0.228	0.223	0.220	0.206	0.198	0.218	5.21
47) T Methyl cyclohe		0.158	0.203	0.232	0.254	0.258	0.254	0.254	0.231	16.25
48) T Trichloroethene		0.190	0.203	0.203	0.210	0.206	0.197	0.192	0.200	3.77
50) T Dibromomethane		0.077	0.082	0.089	0.087	0.088	0.085	0.083	0.085	4.83
51) T 1,2-Dichloropr		0.111	0.138	0.149	0.155	0.159	0.156	0.156	0.146	11.62
53) T 2-Chloroethyl			0.010	0.013	0.012	0.014	0.012	0.013	0.012	9.91
54) T Bromodichlorom		0.184	0.216	0.240	0.247	0.253	0.244	0.239	0.232	10.38
57) T 1,4-Dioxane		0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	15.39
58) T cis-1,3-Dichlo		0.136	0.178	0.232	0.256	0.271	0.266	0.262	*L	0.9994
59) I Chlorobenzene-d5		-----ISTD-----								
60) S Toluene-d8	1.281	1.270	1.310	1.296	1.265	1.268	1.273	1.294	1.282	1.27
61) T Toluene		0.485	0.583	0.589	0.592	0.592	0.571	0.575	0.570	6.73
62) T 4-Methyl-2-pen			0.017	0.024	0.026	0.032	0.032	0.033	*L	0.9975
63) T Tetrachloroethene		0.248	0.317	0.333	0.335	0.337	0.317	0.316	0.315	9.80
65) T trans-1,3-Dich		0.140	0.193	0.246	0.264	0.286	0.281	0.285	*L	0.9993
67) T Ethyl methacry		0.052	0.099	0.139	0.161	0.184	0.183	0.184	*L	0.9981
68) T 1,1,2-Trichlor		0.111	0.127	0.132	0.126	0.130	0.126	0.126	0.125	5.42
69) T Chlorodibromom		0.130	0.162	0.183	0.192	0.206	0.199	0.201	0.182	15.03
70) T 1,3-Dichloropr		0.177	0.218	0.246	0.247	0.255	0.250	0.251	0.235	12.09
71) T 1,2-Dibromoethane		0.087	0.118	0.134	0.135	0.143	0.141	0.142	0.129	15.64
72) T 2-Hexanone		0.009	0.029	0.039	0.047	0.060	0.062	0.064	*L	0.9935
73) T Chlorobenzene		0.581	0.676	0.672	0.674	0.673	0.647	0.645	0.652	5.27
74) T Ethylbenzene		0.875	1.045	1.142	1.170	1.173	1.126	1.115	1.092	9.61
75) T 1,1,1,2-Tetrac		0.180	0.222	0.238	0.241	0.249	0.240	0.240	0.230	10.33
76) T p/m Xylene		0.258	0.392	0.456	0.464	0.465	0.439	0.419	0.413	17.78
77) T o Xylene		0.215	0.342	0.418	0.430	0.432	0.408	0.389	*L	0.9980
78) T Styrene		0.318	0.583	0.685	0.699	0.703	0.660	0.619	*L	0.9970
79) I 1,4-Dichlorobenzene-d4		-----ISTD-----								
80) T Bromoform		0.132	0.156	0.172	0.185	0.202	0.207	0.211	0.181	16.23
82) T Isopropylbenzene		1.060	1.562	1.910	2.082	2.073	2.104	2.128	*L	0.9998
83) S 4-Bromofluorobenzene	0.834	0.838	0.825	0.817	0.816	0.820	0.857	0.911	0.840	3.79
84) T Bromobenzene		0.442	0.483	0.501	0.516	0.514	0.519	0.527	0.500	5.91
85) T n-Propylbenzene		1.478	1.948	2.193	2.306	2.284	2.330	2.328	2.124	14.84
86) T 1,4-Dichlorobu		0.289	0.328	0.356	0.362	0.378	0.391	0.401	0.358	10.85
87) T 1,1,2,2-Tetrac		0.208	0.219	0.225	0.224	0.231	0.237	0.241	0.226	4.95
88) T 4-Ethyltoluene		1.067	1.535	1.807	1.925	1.936	1.960	1.981	1.744	19.27



Initial Calibration Summary Form 6

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Instrument ID : VOA105
Calibration dates : 10/26/17 13:02 10/26/17 16:49

Lab Number : L1740446
Project Number : 06.6448
Ical Ref : ICAL14135

Calibration Files

L11 =V05171026N03.d L1 =V05171026N04.d L2 =V05171026N07.d L3 =V05171026N08.d L4 =V05171026N09.d
 L6 =V05171026N10.d L8 =V05171026N11.d L10 =V05171026N12.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
89) T 2-Chlorotoluene	1.043	1.326	1.344	1.380	1.380	1.388	1.399	1.323	9.52	
90) T 1,3,5-Trimethy	0.884	1.396	1.535	1.616	1.603	1.627	1.658	1.474	18.61	
91) T 1,2,3-Trichlor	0.194	0.207	0.209	0.209	0.205	0.208	0.220	0.208	3.64	
92) T trans-1,4-Dich	0.018	0.037	0.047	0.053	0.062	0.065	0.069	*L	0.9942	
93) T 4-Chlorotoluene	0.891	1.239	1.385	1.449	1.423	1.449	1.488	1.332	15.80	
94) T tert-Butylbenzene	0.667	1.005	1.239	1.343	1.359	1.370	1.401	*L	0.9996	
97) T 1,2,4-Trimethy	0.769	1.280	1.548	1.634	1.633	1.650	1.665	*L	0.9999	
98) T sec-Butylbenzene	0.896	1.421	1.644	1.778	1.773	1.814	1.826	*L	0.9998	
99) T p-Isopropyltol	0.675	1.101	1.436	1.565	1.578	1.609	1.613	*L	0.9997	
100) T 1,3-Dichlorobe	0.718	0.894	0.926	0.951	0.960	0.954	0.955	0.908	9.58	
101) T 1,4-Dichlorobe	0.894	0.973	0.962	0.960	0.965	0.959	0.952	0.952	2.79	
102) T p-Diethylbenzene	0.396	0.602	0.793	0.887	0.900	0.921	0.929	*L	0.9995	
103) T n-Butylbenzene	0.668	1.072	1.185	1.274	1.269	1.305	1.322	*L	0.9997	
104) T 1,2-Dichlorobe	0.578	0.727	0.761	0.786	0.796	0.795	0.792	0.748	10.54	
105) T 1,2,4,5-Tetram	0.446	0.643	1.020	1.210	1.256	1.280	1.285	*L	0.9989	
106) T 1,2-Dibromo-3-	0.008	0.018	0.024	0.026	0.031	0.032	0.032	*L	0.9971	
107) T 1,3,5-Trichlor	0.366	0.477	0.502	0.530	0.533	0.533	0.530	0.496	12.34	
108) T Hexachlorobuta	0.148	0.180	0.178	0.192	0.189	0.194	0.199	0.183	9.33	
109) T 1,2,4-Trichlor	0.211	0.278	0.307	0.339	0.362	0.366	0.363	0.318	18.09	
110) T Naphthalene	0.184	0.234	0.313	0.378	0.450	0.469	0.472	*L	0.9955	
111) T 1,2,3-Trichlor	0.128	0.172	0.183	0.187	0.206	0.208	0.204	0.184	15.20	



Response Factor Report VOA 105

Method Path : I:\VOLATILES\VOA105\2017\171026N\
 Method File : V105_171026N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Oct 26 21:10:14 2017
 Response Via : Initial Calibration

Calibration Files

L11 =V05171026N03.d L1 =V05171026N04.d L2 =V05171026N07.d L3 =V05171026N08.d L4 =V05171026N09.d
 L6 =V05171026N10.d L8 =V05171026N11.d L10 =V05171026N12.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----									
2) T Dichlorodifluo...	0.133	0.163	0.166	0.173	0.164	0.153	0.149	0.157	8.44	
3) T Chloromethane	0.146	0.149	0.140	0.138	0.136	0.138	0.143	0.141	3.27	
4) T Vinyl chloride	0.099	0.107	0.133	0.136	0.145	0.145	0.143	0.141	13.74	
5) T Bromomethane	0.052	0.064	0.063	0.074	0.079	0.078	0.080	0.070	14.89	
6) T Chloroethane	0.088	0.084	0.082	0.080	0.076	0.071	0.054	0.077	15.01	
7) T Trichlorofluor...	0.258	0.317	0.319	0.323	0.302	0.272	0.254	0.292	10.28	
8) T Ethyl ether	0.045	0.049	0.052	0.051	0.051	0.049	0.048	0.049	4.77	
10) T 1,1-Dichloroet...	0.116	0.141	0.143	0.151	0.149	0.141	0.140	0.140	8.08	
11) T Carbon disulfide	0.304	0.358	0.373	0.391	0.392	0.384	0.388	0.370	8.54	
12) T Freon-113	0.132	0.157	0.163	0.171	0.166	0.157	0.154	0.157	8.10	
13) T Iodomethane	0.025	0.065	0.124	0.166	0.187	0.181	0.184	*L	0.9972	
14) T Acrolein		0.007	0.010	0.011	0.013	0.013	0.013	0.011	19.94	
15) T Methylene chlo...	0.169	0.166	0.161	0.161	0.159	0.153	0.152	0.160	3.98	
17) T Acetone	0.035	0.025	0.023	0.022	0.023	0.023	0.022	0.025	18.70	
18) T trans-1,2-Dich...	0.137	0.161	0.168	0.179	0.176	0.170	0.170	0.166	8.37	
19) T Methyl acetate	0.048	0.048	0.050	0.049	0.053	0.053	0.051	0.050	4.37	
20) T Methyl tert-bu...	0.186	0.226	0.278	0.287	0.304	0.297	0.292	0.267	16.56	
21) T tert-Butyl alc...	0.003	0.004	0.004	0.004	0.005	0.005	0.005	0.004	16.72	
22) T Diisopropyl ether	0.279	0.329	0.417	0.448	0.470	0.465	0.461	0.410	18.46	
23) T 1,1-Dichloroet...	0.257	0.304	0.308	0.315	0.313	0.304	0.302	0.300	6.63	
24) T Halothane	0.106	0.134	0.138	0.143	0.143	0.137	0.137	0.134	9.65	
25) T Acrylonitrile	0.013	0.021	0.024	0.024	0.026	0.026	0.026	*L	0.9996	
26) T Ethyl tert-but...	0.197	0.248	0.320	0.341	0.359	0.353	0.350	*L	0.9996	
27) T Vinyl acetate	0.146	0.202	0.267	0.280	0.299	0.294	0.289	*L	0.9995	
28) T cis-1,2-Dichlo...	0.143	0.175	0.188	0.192	0.192	0.186	0.185	0.180	9.65	
29) T 2,2-Dichloropr...	0.204	0.247	0.276	0.287	0.289	0.275	0.278	0.265	11.38	
30) T Bromochloromet...	0.068	0.085	0.087	0.086	0.086	0.082	0.078	0.082	8.31	
31) T Cyclohexane	0.135	0.189	0.249	0.273	0.271	0.267	0.266	*L	0.9997	
32) T Chloroform	0.293	0.347	0.345	0.347	0.340	0.322	0.315	0.330	6.31	
33) T Ethyl acetate	0.045	0.063	0.071	0.071	0.079	0.079	0.077	0.069	17.51	

Response Factor Report VOA 105

Method Path : I:\VOLATILES\VOA105\2017\171026N\
 Method File : V105_171026N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Oct 26 21:10:14 2017
 Response Via : Initial Calibration

Calibration Files

L11 =V05171026N03.d L1 =V05171026N04.d L2 =V05171026N07.d L3 =V05171026N08.d L4 =V05171026N09.d
 L6 =V05171026N10.d L8 =V05171026N11.d L10 =V05171026N12.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
34) T Carbon tetrach...	0.223	0.273	0.302	0.316	0.313	0.293	0.288	0.287	11.14	
35) T Tetrahydrofuran	0.010	0.024	0.025	0.025	0.027	0.027	0.026	*L	0.9996	
36) S Dibromofluorom...	0.291	0.293	0.294	0.292	0.285	0.282	0.274	0.266	0.285	3.55
37) T 1,1,1-Trichlor...	0.267	0.315	0.331	0.346	0.339	0.320	0.313	0.319	8.13	
39) T 2-Butanone	0.018	0.030	0.032	0.029	0.033	0.032	0.031	0.029	17.24	
40) T 1,1-Dichloropr...	0.167	0.215	0.256	0.274	0.272	0.261	0.258	0.243	15.98	
41) T Benzene	0.504	0.626	0.669	0.689	0.682	0.657	0.647	0.639	9.90	
42) T tert-Amyl meth...	0.162	0.207	0.269	0.286	0.309	0.304	0.301	*L	0.9994	
43) S 1,2-Dichloroet...	0.323	0.332	0.332	0.332	0.308	0.302	0.294	0.285	0.313	5.98
44) T 1,2-Dichloroet...	0.220	0.228	0.228	0.223	0.220	0.206	0.198	0.218	5.21	
47) T Methyl cyclohe...	0.158	0.203	0.232	0.254	0.258	0.254	0.254	0.231	16.25	
48) T Trichloroethene	0.190	0.203	0.203	0.210	0.206	0.197	0.192	0.200	3.77	
50) T Dibromomethane	0.077	0.082	0.089	0.087	0.088	0.085	0.083	0.085	4.83	
51) T 1,2-Dichloropr...	0.111	0.138	0.149	0.155	0.159	0.156	0.156	0.146	11.62	
53) T 2-Chloroethyl ...		0.010	0.013	0.012	0.014	0.012	0.013	0.012	9.91	
54) T Bromodichlorom...	0.184	0.216	0.240	0.247	0.253	0.244	0.239	0.232	10.38	
57) T 1,4-Dioxane	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	15.39	
58) T cis-1,3-Dichlo...	0.136	0.178	0.232	0.256	0.271	0.266	0.262	*L	0.9994	
59) I Chlorobenzene-d5	-----ISTD-----									
60) S Toluene-d8	1.281	1.270	1.310	1.296	1.265	1.268	1.273	1.294	1.282	1.27
61) T Toluene	0.485	0.583	0.589	0.592	0.592	0.571	0.575	0.570	6.73	
62) T 4-Methyl-2-pen...		0.017	0.024	0.026	0.032	0.032	0.033	*L	0.9975	
63) T Tetrachloroethene	0.248	0.317	0.333	0.335	0.337	0.317	0.316	0.315	9.80	
65) T trans-1,3-Dich...	0.140	0.193	0.246	0.264	0.286	0.281	0.285	*L	0.9993	
67) T Ethyl methacry...	0.052	0.099	0.139	0.161	0.184	0.183	0.184	*L	0.9981	
68) T 1,1,2-Trichlor...	0.111	0.127	0.132	0.126	0.130	0.126	0.126	0.125	5.42	
69) T Chlorodibromom...	0.130	0.162	0.183	0.192	0.206	0.199	0.201	0.182	15.03	
70) T 1,3-Dichloropr...	0.177	0.218	0.246	0.247	0.255	0.250	0.251	0.235	12.09	
71) T 1,2-Dibromoethane	0.087	0.118	0.134	0.135	0.143	0.141	0.142	0.129	15.64	
72) T 2-Hexanone	0.009	0.029	0.039	0.047	0.060	0.062	0.064	*L	0.9935	
73) T Chlorobenzene	0.581	0.676	0.672	0.674	0.673	0.647	0.645	0.652	5.27	

Response Factor Report VOA 105

Method Path : I:\VOLATILES\VOA105\2017\171026N\
 Method File : V105_171026N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Oct 26 21:10:14 2017
 Response Via : Initial Calibration

Calibration Files

L11 =V05171026N03.d L1 =V05171026N04.d L2 =V05171026N07.d L3 =V05171026N08.d L4 =V05171026N09.d
 L6 =V05171026N10.d L8 =V05171026N11.d L10 =V05171026N12.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
74) T Ethylbenzene	0.875	1.045	1.142	1.170	1.173	1.126	1.115	1.092	9.61	
75) T 1,1,1,2-Tetrac...	0.180	0.222	0.238	0.241	0.249	0.240	0.240	0.230	10.33	
76) T p/m Xylene	0.258	0.392	0.456	0.464	0.465	0.439	0.419	0.413	17.78	
77) T o Xylene	0.215	0.342	0.418	0.430	0.432	0.408	0.389	*L	0.9980	
78) T Styrene	0.318	0.583	0.685	0.699	0.703	0.660	0.619	*L	0.9970	
79) I 1,4-Dichlorobenzene-d4	-----ISTD-----									
80) T Bromoform	0.132	0.156	0.172	0.185	0.202	0.207	0.211	0.181	16.23	
82) T Isopropylbenzene	1.060	1.562	1.910	2.082	2.073	2.104	2.128	*L	0.9998	
83) S 4-Bromofluorob...	0.834	0.838	0.825	0.817	0.816	0.820	0.857	0.911	0.840	3.79
84) T Bromobenzene	0.442	0.483	0.501	0.516	0.514	0.519	0.527	0.500	5.91	
85) T n-Propylbenzene	1.478	1.948	2.193	2.306	2.284	2.330	2.328	2.124	14.84	
86) T 1,4-Dichlorobu...	0.289	0.328	0.356	0.362	0.378	0.391	0.401	0.358	10.85	
87) T 1,1,2,2-Tetrac...	0.208	0.219	0.225	0.224	0.231	0.237	0.241	0.226	4.95	
88) T 4-Ethyltoluene	1.067	1.535	1.807	1.925	1.936	1.960	1.981	1.744	19.27	
89) T 2-Chlorotoluene	1.043	1.326	1.344	1.380	1.380	1.388	1.399	1.323	9.52	
90) T 1,3,5-Trimethy...	0.884	1.396	1.535	1.616	1.603	1.627	1.658	1.474	18.61	
91) T 1,2,3-Trichlor...	0.194	0.207	0.209	0.209	0.205	0.208	0.220	0.208	3.64	
92) T trans-1,4-Dich...	0.018	0.037	0.047	0.053	0.062	0.065	0.069	*L	0.9942	
93) T 4-Chlorotoluene	0.891	1.239	1.385	1.449	1.423	1.449	1.488	1.332	15.80	
94) T tert-Butylbenzene	0.667	1.005	1.239	1.343	1.359	1.370	1.401	*L	0.9996	
97) T 1,2,4-Trimethy...	0.769	1.280	1.548	1.634	1.633	1.650	1.665	*L	0.9999	
98) T sec-Butylbenzene	0.896	1.421	1.644	1.778	1.773	1.814	1.826	*L	0.9998	
99) T p-Isopropyltol...	0.675	1.101	1.436	1.565	1.578	1.609	1.613	*L	0.9997	
100) T 1,3-Dichlorobe...	0.718	0.894	0.926	0.951	0.960	0.954	0.955	0.908	9.58	
101) T 1,4-Dichlorobe...	0.894	0.973	0.962	0.960	0.965	0.959	0.952	0.952	2.79	
102) T p-Diethylbenzene	0.396	0.602	0.793	0.887	0.900	0.921	0.929	*L	0.9995	
103) T n-Butylbenzene	0.668	1.072	1.185	1.274	1.269	1.305	1.322	*L	0.9997	
104) T 1,2-Dichlorobe...	0.578	0.727	0.761	0.786	0.796	0.795	0.792	0.748	10.54	
105) T 1,2,4,5-Tetram...	0.446	0.643	1.020	1.210	1.256	1.280	1.285	*L	0.9989	
106) T 1,2-Dibromo-3-...	0.008	0.018	0.024	0.026	0.031	0.032	0.032	*L	0.9971	
107) T 1,3,5-Trichlor...	0.366	0.477	0.502	0.530	0.533	0.533	0.530	0.496	12.34	

Response Factor Report VOA 105

Method Path : I:\VOLATILES\VOA105\2017\171026N\
 Method File : V105_171026N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Oct 26 21:10:14 2017
 Response Via : Initial Calibration

Calibration Files

L11 =V05171026N03.d L1 =V05171026N04.d L2 =V05171026N07.d L3 =V05171026N08.d L4 =V05171026N09.d
 L6 =V05171026N10.d L8 =V05171026N11.d L10 =V05171026N12.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
108) T Hexachlorobuta...	0.148	0.180	0.178	0.192	0.189	0.194	0.199	0.183	9.33	
109) T 1,2,4-Trichlor...	0.211	0.278	0.307	0.339	0.362	0.366	0.363	0.318	18.09	
110) T Naphthalene	0.184	0.234	0.313	0.378	0.450	0.469	0.472	*L	0.9955	
111) T 1,2,3-Trichlor...	0.128	0.172	0.183	0.187	0.206	0.208	0.204	0.184	15.20	

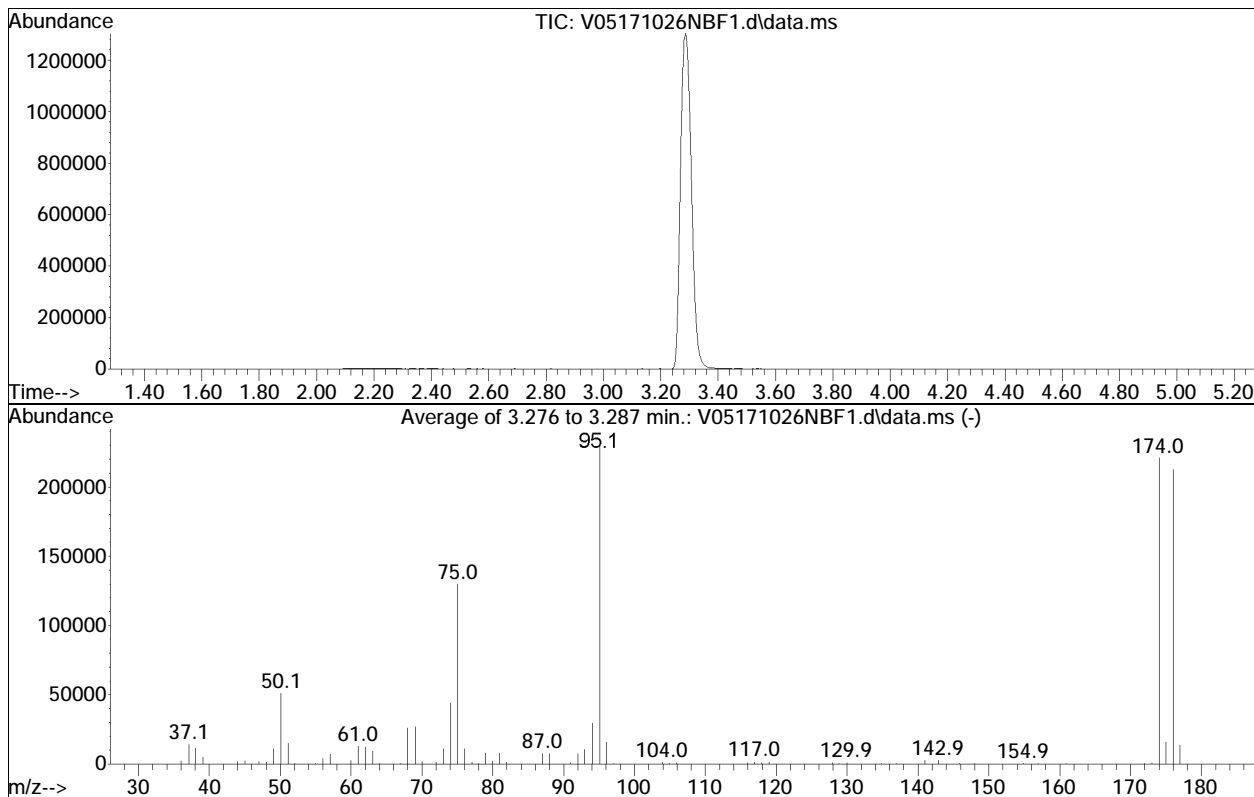
(#) = Out of Range

BFB

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026NBF1.d
 Acq On : 26 Oct 2017 11:53 am
 Operator : VOA105:PK
 Sample : BFB TUNE
 Misc : WG1056776,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Oct 26 21:10:14 2017



AutoFind: Scans 218, 219, 220; Background Corrected with Scan 209

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	50931	PASS
75	95	30	60	56.4	129955	PASS
95	95	100	100	100.0	230549	PASS
96	95	5	9	6.8	15682	PASS
173	174	0.00	2	0.5	1128	PASS
174	95	50	100	95.8	220971	PASS
175	174	5	9	7.2	15917	PASS
176	174	95	101	96.2	212608	PASS
177	176	5	9	6.4	13695	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N03.d
 Acq On : 26 Oct 2017 1:02 pm
 Operator : VOA105:PK
 Sample : ISTD11
 Misc : WG1056776,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 27 10:57:32 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-VC - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.222	96	548508	10.000	ug/L	0.00
Standard Area 1 = 569888			Recovery =	96.25%		
59) Chlorobenzene-d5	9.765	117	444132	10.000	ug/L	0.00
Standard Area 1 = 456496			Recovery =	97.29%		
79) 1,4-Dichlorobenzene-d4	12.419	152	241539	10.000	ug/L	0.00
Standard Area 1 = 272175			Recovery =	88.74%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.411	113	159571	10.217	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.17%		
43) 1,2-Dichloroethane-d4	5.939	65	177101	10.302	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.02%		
60) Toluene-d8	7.914	98	568824	9.991	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.91%		
83) 4-Bromofluorobenzene	11.224	95	201377	9.927	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.27%		
Target Compounds						
4) Vinyl chloride	2.026	62	1086	0.151	ug/L	Qvalue # 41

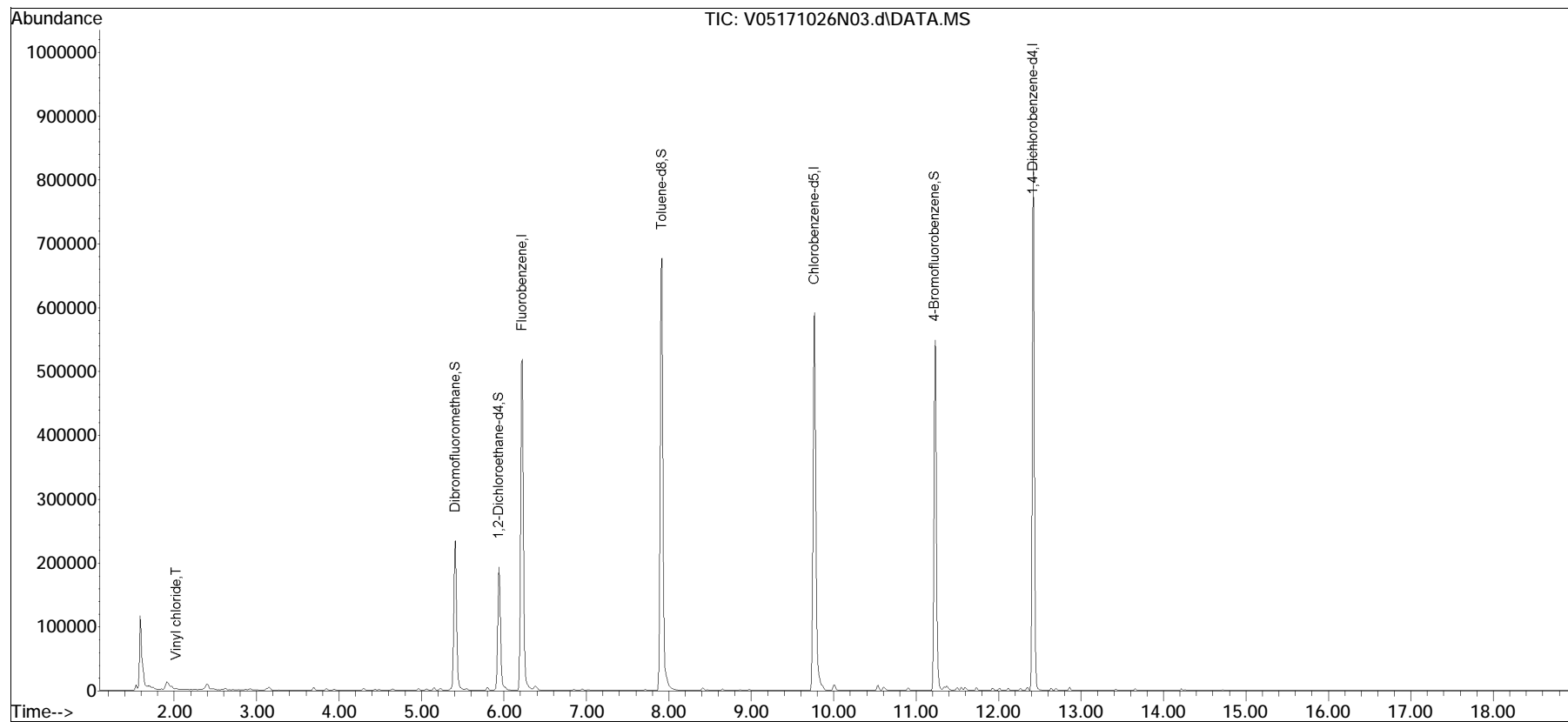
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
Data File : V05171026N03.d
Acq On : 26 Oct 2017 1:02 pm
Operator : VOA105:PK
Sample : ISTD11
Misc : WG1056776,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 27 10:57:32 2017
Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 26 21:10:14 2017
Response via : Initial Calibration

Sub List : 8260-VC - All compounds listed71026N\V05171026N08.d•



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171026N03.d Operator : VOA105:PK
Date Inj'd : 10/26/2017 1:02 pm Instrument : VOA 105
Sample : ISTD11 Quant Date : 10/27/2017 10:57 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N04.d
 Acq On : 26 Oct 2017 1:27 pm
 Operator : VOA105:PK
 Sample : ISTD1
 Misc : WG1056776,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 10:57:41 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.222	96	540938	10.000	ug/L	0.00
Standard Area 1 = 569888			Recovery =	94.92%		
59) Chlorobenzene-d5	9.765	117	440722	10.000	ug/L	0.00
Standard Area 1 = 456496			Recovery =	96.54%		
79) 1,4-Dichlorobenzene-d4	12.419	152	242943	10.000	ug/L	0.00
Standard Area 1 = 272175			Recovery =	89.26%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.410	113	158640	10.300	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.00%		
43) 1,2-Dichloroethane-d4	5.939	65	179333	10.578	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.78%		
60) Toluene-d8	7.914	98	559566	9.904	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.04%		
83) 4-Bromofluorobenzene	11.234	95	203604	9.979	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.79%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.743	85	3603	0.423	ug/L	95
3) Chloromethane	1.938	50	3956	0.517	ug/L	91
4) Vinyl chloride	2.026	62	2886	0.407	ug/L #	30
5) Bromomethane	2.349	94	1410	0.372	ug/L	87
6) Chloroethane	2.476	64	2376	0.574	ug/L	90
7) Trichlorofluoromethane	2.613	101	6991	0.442	ug/L	100
8) Ethyl ether	2.926	74	1213	0.456	ug/L	91
10) 1,1-Dichloroethene	3.122	96	3148	0.415	ug/L	90
11) Carbon disulfide	3.151	76	8209	0.411	ug/L	96
12) Freon-113	3.151	101	3565	0.419	ug/L #	80
13) Iodomethane	3.269	142	678	0.779	ug/L #	53
14) Acrolein	0.000		0	N.D.		
15) Methylene chloride	3.699	84	4579	0.529	ug/L	88
17) Acetone	3.758	43	946	0.707	ug/L #	52
18) trans-1,2-Dichloroethene	3.846	96	3711	0.414	ug/L	93
19) Methyl acetate	3.865	43	1296	0.477	ug/L #	55
20) Methyl tert-butyl ether	3.934	73	5022	0.347	ug/L	91
21) tert-Butyl alcohol	4.051	59	448	1.918	ug/L #	40
22) Diisopropyl ether	4.295	45	7557	0.341	ug/L	88
23) 1,1-Dichloroethane	4.442	63	6944	0.427	ug/L	96
24) Halothane	4.481	117	2856	0.394	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N04.d
 Acq On : 26 Oct 2017 1:27 pm
 Operator : VOA105:PK
 Sample : ISTD1
 Misc : WG1056776,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 10:57:41 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.511	53	339	0.562	ug/L #	40
26) Ethyl tert-butyl ether	4.648	59	5318	0.598	ug/L	89
27) Vinyl acetate	4.677	43	3958	0.594	ug/L #	87
28) cis-1,2-Dichloroethene	4.961	96	3862	0.397	ug/L	94
29) 2,2-Dichloropropane	5.058	77	5523	0.385	ug/L	96
30) Bromochloromethane	5.166	128	1843	0.416	ug/L #	78
31) Cyclohexane	5.146	56	3651	0.572	ug/L	83
32) Chloroform	5.225	83	7927	0.444	ug/L	97
33) Ethyl acetate	5.342	43	1218	0.325	ug/L #	66
34) Carbon tetrachloride	5.352	117	6022	0.388	ug/L	98
35) Tetrahydrofuran	5.381	42	268	0.494	ug/L #	44
37) 1,1,1-Trichloroethane	5.430	97	7217	0.419	ug/L	97
39) 2-Butanone	5.557	43	492	0.310	ug/L #	24
40) 1,1-Dichloropropene	5.547	75	4513	0.343	ug/L	96
41) Benzene	5.802	78	13635	0.394	ug/L	96
42) tert-Amyl methyl ether	5.900	73	4374	0.615	ug/L	94
44) 1,2-Dichloroethane	6.007	62	5963	0.506	ug/L	98
47) Methyl cyclohexane	6.369	83	4286	0.344	ug/L	93
48) Trichloroethene	6.389	95	5147	0.475	ug/L	96
50) Dibromomethane	6.848	93	2090	0.457	ug/L #	83
51) 1,2-Dichloropropane	6.946	63	3006	0.380	ug/L #	88
53) 2-Chloroethyl vinyl ether	0.000		0	N.D.		
54) Bromodichloromethane	7.015	83	4973	0.397	ug/L	99
57) 1,4-Dioxane	7.230	88	2402	74.736	ug/L #	79
58) cis-1,3-Dichloropropene	7.709	75	3669	0.615	ug/L	99
61) Toluene	7.963	92	10681	0.426	ug/L	98
62) 4-Methyl-2-pentanone	8.374		0	N.D.		
63) Tetrachloroethene	8.413	166	5466	0.394	ug/L	91
65) trans-1,3-Dichloropropene	8.472	75	3077	0.627	ug/L	94
67) Ethyl methacrylate	8.638	69	1143	0.708	ug/L #	1
68) 1,1,2-Trichloroethane	8.648	83	2444	0.442	ug/L	93
69) Chlorodibromomethane	8.863	129	2860	0.357	ug/L	95
70) 1,3-Dichloropropane	8.971	76	3892	0.376	ug/L	97
71) 1,2-Dibromoethane	9.147	107	1924	0.339	ug/L	92
72) 2-Hexanone	9.432	43	199	0.808	ug/L #	42
73) Chlorobenzene	9.784	112	12792	0.445	ug/L #	82
74) Ethylbenzene	9.814	91	19283	0.401	ug/L	95
75) 1,1,1,2-Tetrachloroethane	9.872	131	3956	0.390	ug/L #	66
76) p/m Xylene	10.009	106	11353	0.624	ug/L	95
77) o Xylene	10.538	106	9474	0.918	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N04.d
 Acq On : 26 Oct 2017 1:27 pm
 Operator : VOA105:PK
 Sample : ISTD1
 Misc : WG1056776,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 10:57:41 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.607	104	14031	0.841	ug/L	97
80) Bromoform	10.636	173	1600	0.364	ug/L	78
82) Isopropylbenzene	10.901	105	12876	0.582	ug/L	99
84) Bromobenzene	11.342	156	5364	0.441	ug/L	100
85) n-Propylbenzene	11.371	91	17953	0.348	ug/L	99
86) 1,4-Dichlorobutane	11.410	55	3510	0.404	ug/L	98
87) 1,1,2,2-Tetrachloroethane	11.469	83	2525	0.459	ug/L	97
88) 4-Ethyltoluene	11.499	105	12962	0.306	ug/L	98
89) 2-Chlorotoluene	11.547	91	12673M1	0.394	ug/L	
90) 1,3,5-Trimethylbenzene	11.596	105	10741	0.300	ug/L	96
91) 1,2,3-Trichloropropane	11.606	75	2360	0.468	ug/L	96
92) trans-1,4-Dichloro-2-b...	11.596	53	219	0.762	ug/L #	1
93) 4-Chlorotoluene	11.724	91	10823	0.334	ug/L	94
94) tert-Butylbenzene	11.930	119	8100	0.593	ug/L	97
97) 1,2,4-Trimethylbenzene	12.008	105	9341	0.553	ug/L	93
98) sec-Butylbenzene	12.116	105	10889	0.565	ug/L	95
99) p-Isopropyltoluene	12.263	119	8195	0.599	ug/L	98
100) 1,3-Dichlorobenzene	12.351	146	8723	0.395	ug/L	94
101) 1,4-Dichlorobenzene	12.439	146	10858M2	0.469	ug/L	
102) p-Diethylbenzene	12.635	119	4806	0.628	ug/L	98
103) n-Butylbenzene	12.694	91	8113	0.557	ug/L	94
104) 1,2-Dichlorobenzene	12.860	146	7025	0.387	ug/L	96
105) 1,2,4,5-Tetramethylben...	13.419	119	5419	0.700	ug/L	96
106) 1,2-Dibromo-3-chloropr...	13.634	155	92	0.709	ug/L	84
107) 1,3,5-Trichlorobenzene	13.654	180	4444	0.369	ug/L	93
108) Hexachlorobutadiene	14.212	225	1794	0.404	ug/L	91
109) 1,2,4-Trichlorobenzene	14.261	180	2563	0.332	ug/L #	93
110) Naphthalene	14.555	128	2234	0.789	ug/L	100
111) 1,2,3-Trichlorobenzene	14.712	180	1557	0.348	ug/L #	88

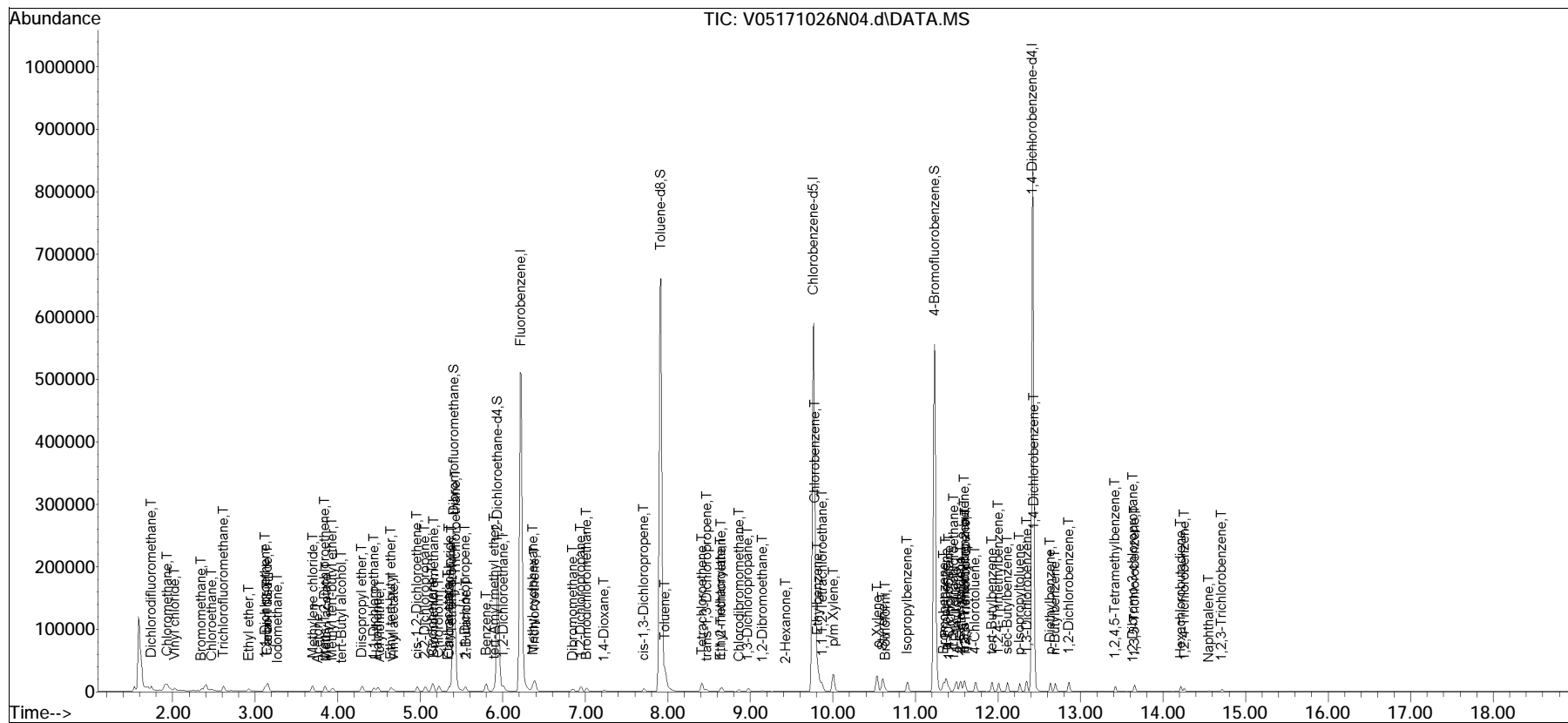
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N04.d
 Acq On : 26 Oct 2017 1:27 pm
 Operator : VOA105:PK
 Sample : ISTD11
 Misc : WG1056776,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 10:57:41 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

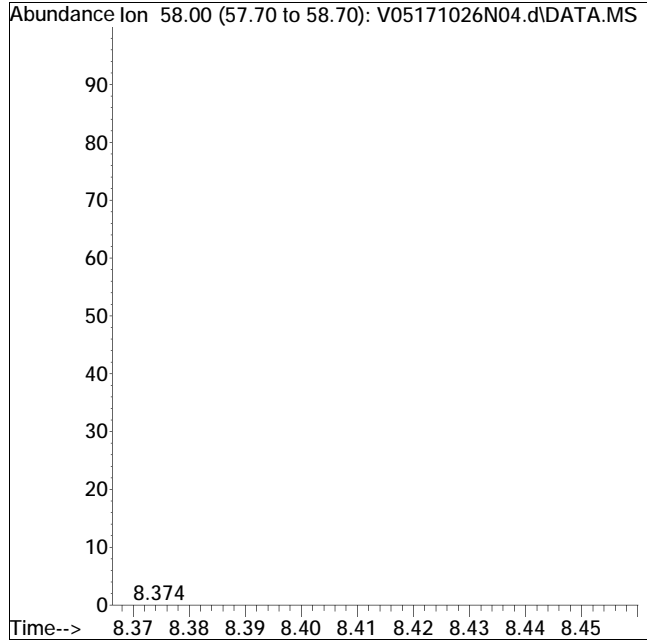
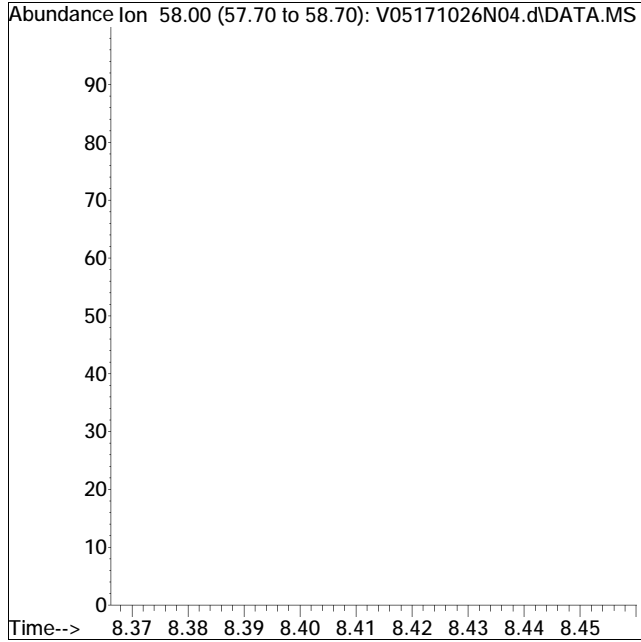
Sub List : 8260-Curve - Megamix plus Diox71026N\V05171026N08.d•



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171026N04.d Operator : VOA105:PK
Date Inj'd : 10/26/2017 1:27 pm Instrument : VOA 105
Sample : ISTD1 Quant Date : 10/27/2017 10:57 am

Compound #62: 4-Methyl-2-pentanone



Original Peak Response = 0

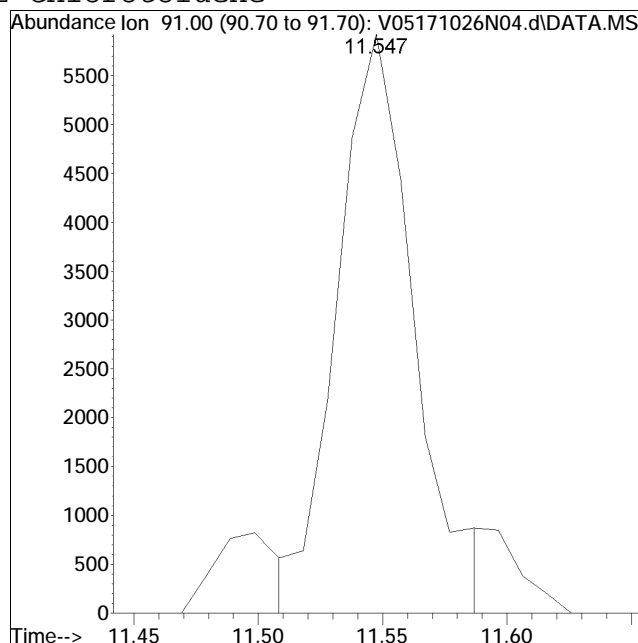
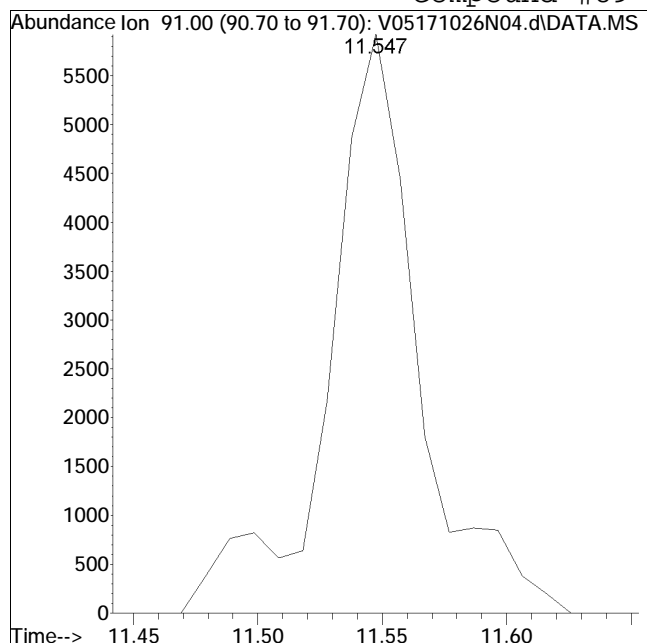
Manual Peak Response = 0 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171026N04.d Operator : VOA105:PK
Date Inj'd : 10/26/2017 1:27 pm Instrument : VOA 105
Sample : ISTD11 Quant Date : 10/27/2017 10:57 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 14992

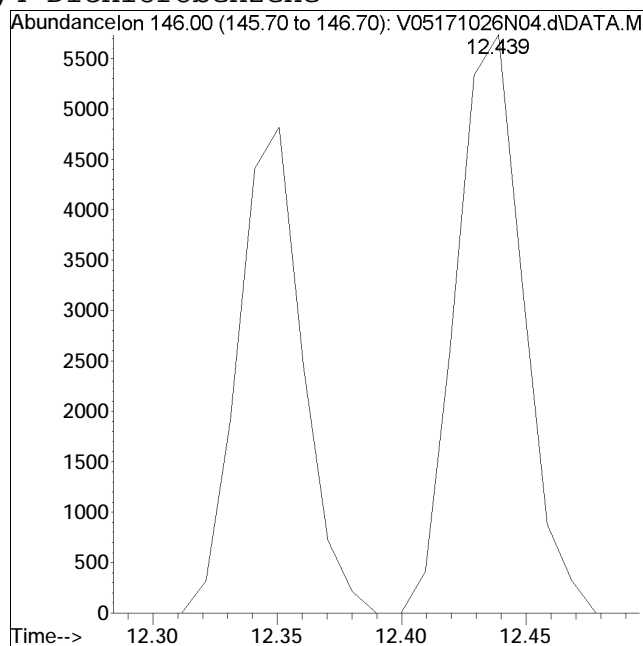
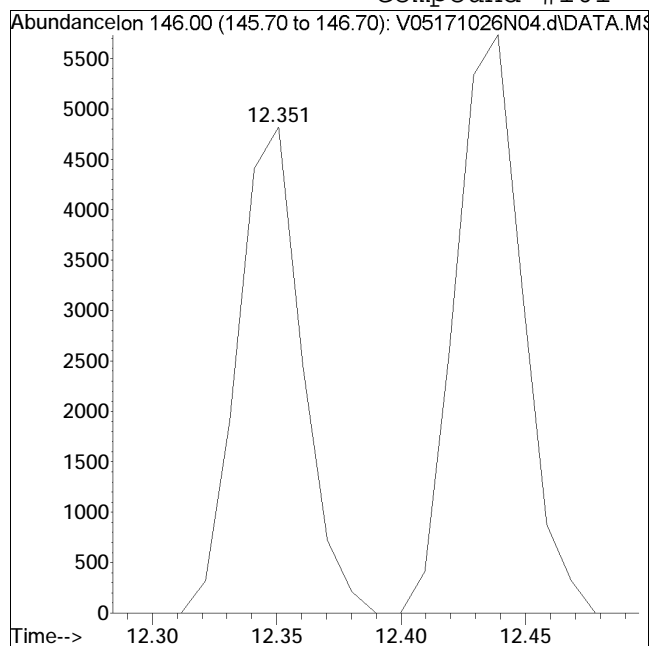
Manual Peak Response = 12673 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171026N04.d Operator : VOA105:PK
Date Inj'd : 10/26/2017 1:27 pm Instrument : VOA 105
Sample : ISTD1 Quant Date : 10/27/2017 10:57 am

Compound #101: 1,4-Dichlorobenzene



Original Peak Response = 8723

Manual Peak Response = 10858 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N07.d
 Acq On : 26 Oct 2017 2:43 pm
 Operator : VOA105:PK
 Sample : ISTD2
 Misc : WG1056776,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 10:58:06 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.222	96	548806	10.000	ug/L	0.00
Standard Area 1 = 569888			Recovery =	96.30%		
59) Chlorobenzene-d5	9.765	117	431697	10.000	ug/L	0.00
Standard Area 1 = 456496			Recovery =	94.57%		
79) 1,4-Dichlorobenzene-d4	12.419	152	251006	10.000	ug/L	0.00
Standard Area 1 = 272175			Recovery =	92.22%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.410	113	161258	10.320	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.20%		
43) 1,2-Dichloroethane-d4	5.939	65	182081	10.586	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.86%		
60) Toluene-d8	7.914	98	565476	10.218	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.18%		
83) 4-Bromofluorobenzene	11.224	95	207141	9.826	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.26%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.743	85	17840	2.066	ug/L	97
3) Chloromethane	1.938	50	16307	2.101	ug/L	99
4) Vinyl chloride	2.026	62	14610	2.031	ug/L	92
5) Bromomethane	2.349	94	7047	1.835	ug/L	99
6) Chloroethane	2.476	64	9266	2.207	ug/L	96
7) Trichlorofluoromethane	2.613	101	34823	2.170	ug/L	98
8) Ethyl ether	2.926	74	5371	1.989	ug/L	92
10) 1,1-Dichloroethene	3.122	96	15444	2.008	ug/L	90
11) Carbon disulfide	3.151	76	39241	1.934	ug/L	98
12) Freon-113	3.161	101	17260	2.002	ug/L #	79
13) Iodomethane	3.268	142	7167	1.426	ug/L	94
14) Acrolein	3.464	56	810	1.322	ug/L	98
15) Methylene chloride	3.689	84	18220	2.074	ug/L	91
17) Acetone	3.748	43	2769	2.038	ug/L #	86
18) trans-1,2-Dichloroethene	3.845	96	17643	1.938	ug/L	91
19) Methyl acetate	3.865	43	5227	1.894	ug/L	97
20) Methyl tert-butyl ether	3.943	73	24816	1.692	ug/L	96
21) tert-Butyl alcohol	4.051	59	1982	8.364	ug/L #	87
22) Diisopropyl ether	4.295	45	36075	1.604	ug/L	85
23) 1,1-Dichloroethane	4.442	63	33374	2.024	ug/L	99
24) Halothane	4.491	117	14744	2.006	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N07.d
 Acq On : 26 Oct 2017 2:43 pm
 Operator : VOA105:PK
 Sample : ISTD2
 Misc : WG1056776,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 10:58:06 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.511	53	2333	1.950	ug/L	92
26) Ethyl tert-butyl ether	4.648	59	27237	1.728	ug/L	95
27) Vinyl acetate	4.677	43	22198	1.729	ug/L	97
28) cis-1,2-Dichloroethene	4.960	96	19206	1.944	ug/L	91
29) 2,2-Dichloropropane	5.058	77	27152	1.865	ug/L	98
30) Bromochloromethane	5.156	128	9381	2.087	ug/L #	77
31) Cyclohexane	5.146	56	20708	1.727	ug/L	83
32) Chloroform	5.225	83	38142	2.107	ug/L	98
33) Ethyl acetate	5.342	43	6920	1.817	ug/L #	92
34) Carbon tetrachloride	5.352	117	29994	1.905	ug/L	99
35) Tetrahydrofuran	5.381	42	2650	2.131	ug/L #	79
37) 1,1,1-Trichloroethane	5.420	97	34590	1.978	ug/L	100
39) 2-Butanone	5.538	43	3243	2.017	ug/L	91
40) 1,1-Dichloropropene	5.547	75	23633	1.771	ug/L	97
41) Benzene	5.802	78	68678	1.958	ug/L	99
42) tert-Amyl methyl ether	5.899	73	22732	1.717	ug/L	97
44) 1,2-Dichloroethane	6.007	62	25003	2.093	ug/L	98
47) Methyl cyclohexane	6.369	83	22245	1.757	ug/L	91
48) Trichloroethene	6.388	95	22296	2.028	ug/L	94
50) Dibromomethane	6.848	93	8990	1.938	ug/L #	79
51) 1,2-Dichloropropane	6.946	63	15134	1.885	ug/L	95
53) 2-Chloroethyl vinyl ether	7.650	63	1142	1.670	ug/L #	92
54) Bromodichloromethane	7.014	83	23719	1.864	ug/L	99
57) 1,4-Dioxane	7.230	88	11508	352.926	ug/L	91
58) cis-1,3-Dichloropropene	7.709	75	19575	1.706	ug/L	99
61) Toluene	7.973	92	50294	2.046	ug/L	98
62) 4-Methyl-2-pentanone	8.413	58	1481	2.451	ug/L	89
63) Tetrachloroethene	8.413	166	27356	2.013	ug/L	89
65) trans-1,3-Dichloropropene	8.462	75	16631	1.743	ug/L	98
67) Ethyl methacrylate	8.638	69	8506	1.647	ug/L #	63
68) 1,1,2-Trichloroethane	8.648	83	11002	2.032	ug/L	97
69) Chlorodibromomethane	8.863	129	13944	1.777	ug/L	98
70) 1,3-Dichloropropane	8.971	76	18797	1.855	ug/L	98
71) 1,2-Dibromoethane	9.147	107	10175	1.832	ug/L	97
72) 2-Hexanone	9.422	43	2506	1.681	ug/L #	92
73) Chlorobenzene	9.784	112	58362	2.072	ug/L	96
74) Ethylbenzene	9.813	91	90183	1.913	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.862	131	19143	1.928	ug/L	98
76) p/m Xylene	10.000	106	67726	3.797	ug/L	96
77) o Xylene	10.538	106	59070	3.757	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N07.d
 Acq On : 26 Oct 2017 2:43 pm
 Operator : VOA105:PK
 Sample : ISTD2
 Misc : WG1056776,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 10:58:06 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.597	104	100655	3.920	ug/L	93
80) Bromoform	10.636	173	7837	1.727	ug/L	99
82) Isopropylbenzene	10.901	105	78422	1.811	ug/L	97
84) Bromobenzene	11.342	156	24245	1.931	ug/L	98
85) n-Propylbenzene	11.371	91	97775	1.834	ug/L	95
86) 1,4-Dichlorobutane	11.410	55	16484	1.834	ug/L	91
87) 1,1,2,2-Tetrachloroethane	11.469	83	10997	1.936	ug/L	98
88) 4-Ethyltoluene	11.498	105	77043	1.760	ug/L	96
89) 2-Chlorotoluene	11.547	91	66576M1	2.005	ug/L	
90) 1,3,5-Trimethylbenzene	11.587	105	70060	1.893	ug/L	99
91) 1,2,3-Trichloropropane	11.616	75	10392M1	1.995	ug/L	
92) trans-1,4-Dichloro-2-b...	11.655	53	1843	1.744	ug/L #	47
93) 4-Chlorotoluene	11.724	91	62191	1.860	ug/L	93
94) tert-Butylbenzene	11.929	119	50465	1.806	ug/L	95
97) 1,2,4-Trimethylbenzene	12.008	105	64260	1.867	ug/L	96
98) sec-Butylbenzene	12.116	105	71330	1.886	ug/L	96
99) p-Isopropyltoluene	12.262	119	55264	1.760	ug/L	97
100) 1,3-Dichlorobenzene	12.341	146	44898	1.969	ug/L	97
101) 1,4-Dichlorobenzene	12.439	146	48844	2.043	ug/L	98
102) p-Diethylbenzene	12.635	119	30208	1.722	ug/L	96
103) n-Butylbenzene	12.694	91	53804	1.943	ug/L	96
104) 1,2-Dichlorobenzene	12.860	146	36512	1.945	ug/L	95
105) 1,2,4,5-Tetramethylben...	13.418	119	32277	1.534	ug/L	97
106) 1,2-Dibromo-3-chloropr...	13.634	155	904	1.736	ug/L #	61
107) 1,3,5-Trichlorobenzene	13.654	180	23922	1.921	ug/L	93
108) Hexachlorobutadiene	14.212	225	9044	1.973	ug/L	95
109) 1,2,4-Trichlorobenzene	14.251	180	13931	1.746	ug/L	96
110) Naphthalene	14.555	128	11724	1.605	ug/L	100
111) 1,2,3-Trichlorobenzene	14.711	180	8646	1.872	ug/L	95

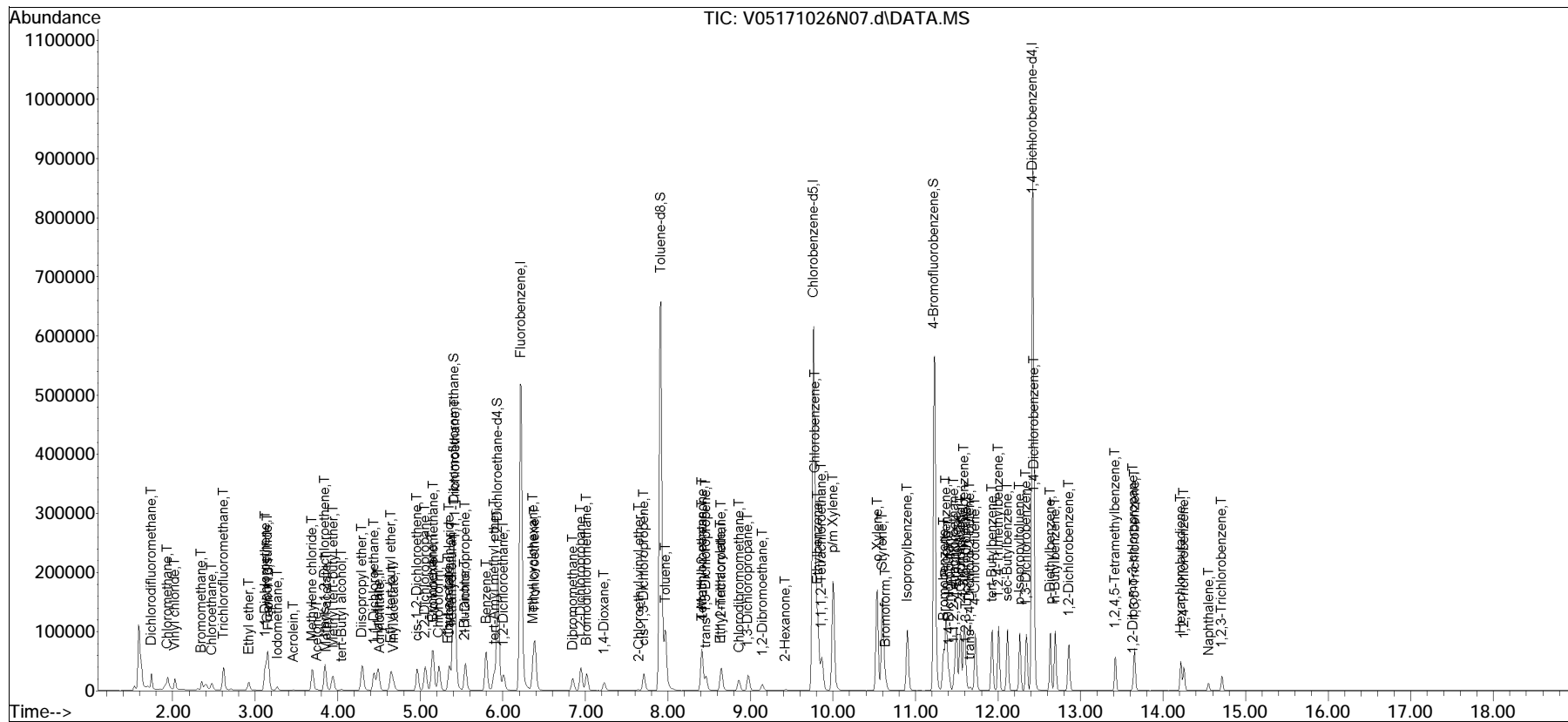
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N07.d
 Acq On : 26 Oct 2017 2:43 pm
 Operator : VOA105:PK
 Sample : ISTD L2
 Misc : WG1056776,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 10:58:06 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

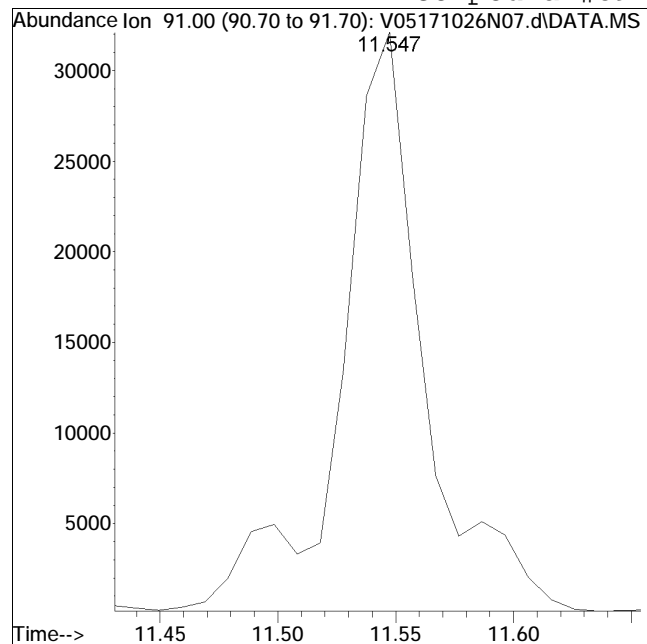
Sub List : 8260-Curve - Megamix plus Diox71026N\V05171026N08.d•



Manual Integration Report

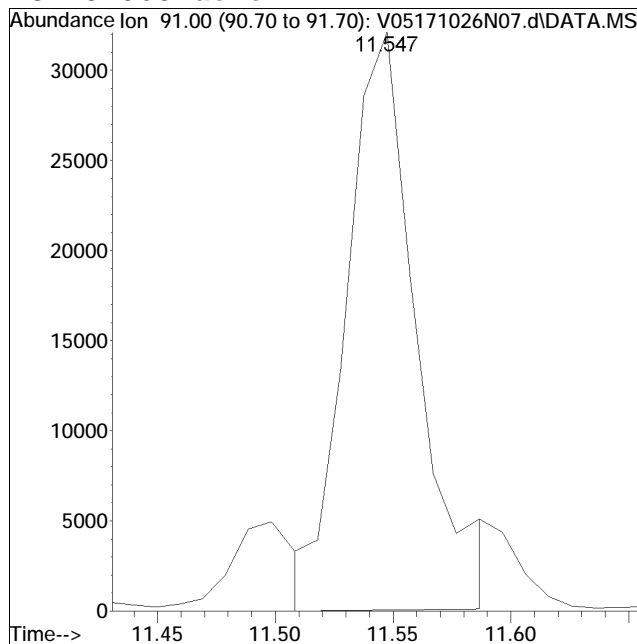
Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171026N07.d Operator : VOA105:PK
Date Inj'd : 10/26/2017 2:43 pm Instrument : VOA 105
Sample : ISTDL2 Quant Date : 10/27/2017 10:58 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 78757

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

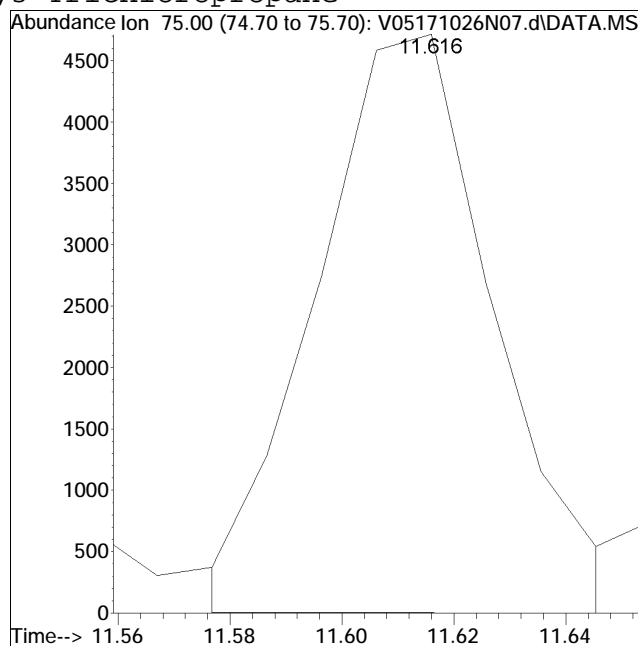
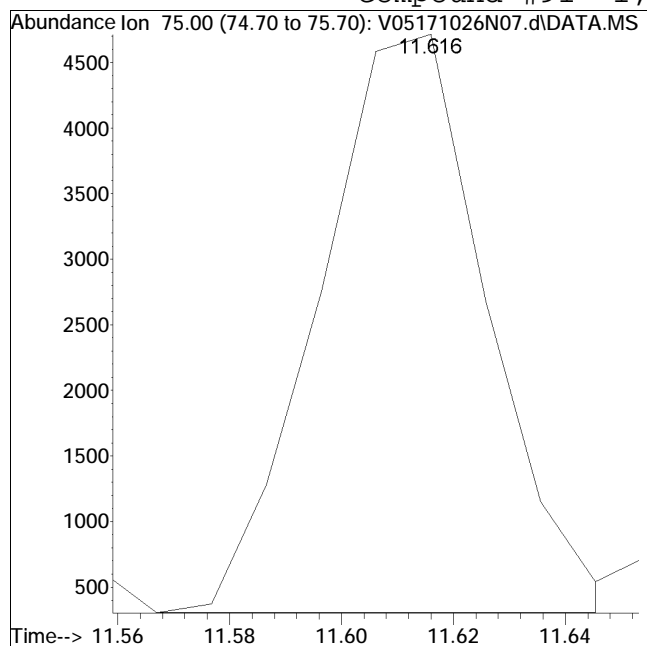


Manual Peak Response = 66576 M1

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171026N07.d Operator : VOA105:PK
Date Inj'd : 10/26/2017 2:43 pm Instrument : VOA 105
Sample : ISTD12 Quant Date : 10/27/2017 10:58 am

Compound #91: 1,2,3-Trichloropropane



M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N08.d
 Acq On : 26 Oct 2017 3:08 pm
 Operator : VOA105:PK
 Sample : ISTD3
 Misc : WG1056776,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 10:58:15 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.213	96	569888	10.000	ug/L	0.00	
Standard Area 1 = 569888			Recovery = 100.00%				
59) Chlorobenzene-d5	9.765	117	456496	10.000	ug/L	0.00	
Standard Area 1 = 456496			Recovery = 100.00%				
79) 1,4-Dichlorobenzene-d4	12.419	152	272175	10.000	ug/L	0.00	
Standard Area 1 = 272175			Recovery = 100.00%				
System Monitoring Compounds							
36) Dibromofluoromethane	5.411	113	166556	10.265	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.65%				
43) 1,2-Dichloroethane-d4	5.939	65	189275	10.597	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.97%				
60) Toluene-d8	7.905	98	591583	10.109	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.09%				
83) 4-Bromofluorobenzene	11.224	95	222416	9.730	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.30%				
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.743	85	94823	10.574	ug/L		99
3) Chloromethane	1.938	50	79611	9.876	ug/L		99
4) Vinyl chloride	2.026	62	77612	10.390	ug/L		96
5) Bromomethane	2.349	94	36027	9.034	ug/L		99
6) Chloroethane	2.476	64	46916	10.761	ug/L		98
7) Trichlorofluoromethane	2.613	101	182010	10.923	ug/L		100
8) Ethyl ether	2.926	74	29380	10.475	ug/L		92
10) 1,1-Dichloroethene	3.122	96	81269	10.178	ug/L		91
11) Carbon disulfide	3.151	76	212523	10.088	ug/L		100
12) Freon-113	3.151	101	92989	10.385	ug/L	#	79
13) Iodomethane	3.269	142	70681	7.510	ug/L		95
14) Acrolein	3.464	56	5685	8.935	ug/L		100
15) Methylene chloride	3.689	84	91555	10.038	ug/L		91
17) Acetone	3.748	43	13091	9.280	ug/L		97
18) trans-1,2-Dichloroethene	3.846	96	95923	10.149	ug/L		92
19) Methyl acetate	3.855	43	28356	9.897	ug/L		93
20) Methyl tert-butyl ether	3.943	73	158516	10.409	ug/L		97
21) tert-Butyl alcohol	4.041	59	11753	47.764	ug/L		90
22) Diisopropyl ether	4.295	45	237377	10.166	ug/L		93
23) 1,1-Dichloroethane	4.442	63	175568	10.256	ug/L		99
24) Halothane	4.491	117	78514	10.289	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N08.d
 Acq On : 26 Oct 2017 3:08 pm
 Operator : VOA105:PK
 Sample : ISTD3
 Misc : WG1056776,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 10:58:15 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.501	53	13422	9.340	ug/L	93
26) Ethyl tert-butyl ether	4.648	59	182147	9.397	ug/L	95
27) Vinyl acetate	4.677	43	152063	9.489	ug/L	98
28) cis-1,2-Dichloroethene	4.961	96	107209	10.450	ug/L	90
29) 2,2-Dichloropropane	5.058	77	157564	10.423	ug/L	93
30) Bromochloromethane	5.156	128	49649	10.636	ug/L #	79
31) Cyclohexane	5.146	56	141809	9.596	ug/L	87
32) Chloroform	5.225	83	196763	10.465	ug/L	99
33) Ethyl acetate	5.332	43	40484	10.238	ug/L	95
34) Carbon tetrachloride	5.352	117	171828	10.510	ug/L	99
35) Tetrahydrofuran	5.381	42	14324	9.802	ug/L	93
37) 1,1,1-Trichloroethane	5.420	97	188405	10.373	ug/L	98
39) 2-Butanone	5.528	43	18086	10.834	ug/L	93
40) 1,1-Dichloropropene	5.547	75	145790	10.519	ug/L	97
41) Benzene	5.792	78	381430	10.470	ug/L	99
42) tert-Amyl methyl ether	5.900	73	153428	9.249	ug/L	96
44) 1,2-Dichloroethane	6.007	62	130166	10.491	ug/L	100
47) Methyl cyclohexane	6.369	83	132482	10.079	ug/L	90
48) Trichloroethene	6.389	95	115930	10.155	ug/L	92
50) Dibromomethane	6.848	93	50571	10.499	ug/L #	81
51) 1,2-Dichloropropane	6.946	63	84988	10.194	ug/L	95
53) 2-Chloroethyl vinyl ether	7.641	63	7459	10.504	ug/L #	90
54) Bromodichloromethane	7.015	83	137047	10.374	ug/L	99
57) 1,4-Dioxane	7.230	88	16088	475.133	ug/L	88
58) cis-1,3-Dichloropropene	7.709	75	132136	9.112	ug/L	98
61) Toluene	7.963	92	268841	10.341	ug/L	99
62) 4-Methyl-2-pentanone	8.413	58	11078	8.921	ug/L	97
63) Tetrachloroethene	8.413	166	152085	10.584	ug/L	90
65) trans-1,3-Dichloropropene	8.462	75	112212	9.076	ug/L	98
67) Ethyl methacrylate	8.638	69	63610	8.210	ug/L	86
68) 1,1,2-Trichloroethane	8.648	83	60264	10.524	ug/L	97
69) Chlorodibromomethane	8.854	129	83542	10.066	ug/L	99
70) 1,3-Dichloropropane	8.971	76	112516	10.502	ug/L	100
71) 1,2-Dibromoethane	9.138	107	61379	10.453	ug/L	99
72) 2-Hexanone	9.422	43	17658	7.038	ug/L	98
73) Chlorobenzene	9.784	112	306880	10.303	ug/L	93
74) Ethylbenzene	9.814	91	521361	10.457	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.863	131	108672	10.350	ug/L	98
76) p/m Xylene	10.000	106	416344	22.076	ug/L	93
77) o Xylene	10.529	106	381520	20.963	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N08.d
 Acq On : 26 Oct 2017 3:08 pm
 Operator : VOA105:PK
 Sample : ISTD3
 Misc : WG1056776,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 10:58:15 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.597	104	625757	21.323	ug/L	95
80) Bromoform	10.636	173	46824	9.517	ug/L	98
82) Isopropylbenzene	10.901	105	519963	9.382	ug/L	98
84) Bromobenzene	11.342	156	136357	10.015	ug/L	99
85) n-Propylbenzene	11.371	91	596805	10.324	ug/L	95
86) 1,4-Dichlorobutane	11.401	55	96897	9.944	ug/L	93
87) 1,1,2,2-Tetrachloroethane	11.469	83	61190	9.932	ug/L	99
88) 4-Ethyltoluene	11.499	105	491799	10.359	ug/L	97
89) 2-Chlorotoluene	11.547	91	365743M1	10.158	ug/L	
90) 1,3,5-Trimethylbenzene	11.587	105	417892	10.415	ug/L	96
91) 1,2,3-Trichloropropane	11.606	75	56778	10.053	ug/L	93
92) trans-1,4-Dichloro-2-b...	11.665	53	12680	7.725	ug/L	92
93) 4-Chlorotoluene	11.724	91	376971	10.399	ug/L	92
94) tert-Butylbenzene	11.930	119	337253	9.316	ug/L	95
97) 1,2,4-Trimethylbenzene	12.008	105	421225	9.667	ug/L	96
98) sec-Butylbenzene	12.116	105	447573	9.393	ug/L	95
99) p-Isopropyltoluene	12.263	119	390871	9.336	ug/L	97
100) 1,3-Dichlorobenzene	12.341	146	251955	10.192	ug/L	95
101) 1,4-Dichlorobenzene	12.439	146	261934	10.106	ug/L	96
102) p-Diethylbenzene	12.635	119	215873	9.038	ug/L	96
103) n-Butylbenzene	12.694	91	322446	9.373	ug/L	97
104) 1,2-Dichlorobenzene	12.860	146	207057	10.171	ug/L	96
105) 1,2,4,5-Tetramethylben...	13.419	119	277520	8.528	ug/L	95
106) 1,2-Dibromo-3-chloropr...	13.634	155	6601	8.318	ug/L	94
107) 1,3,5-Trichlorobenzene	13.654	180	136759	10.131	ug/L	94
108) Hexachlorobutadiene	14.222	225	48470	9.751	ug/L	99
109) 1,2,4-Trichlorobenzene	14.251	180	83633	9.668	ug/L	96
110) Naphthalene	14.545	128	85123	7.389	ug/L	100
111) 1,2,3-Trichlorobenzene	14.712	180	49795	9.944	ug/L	98

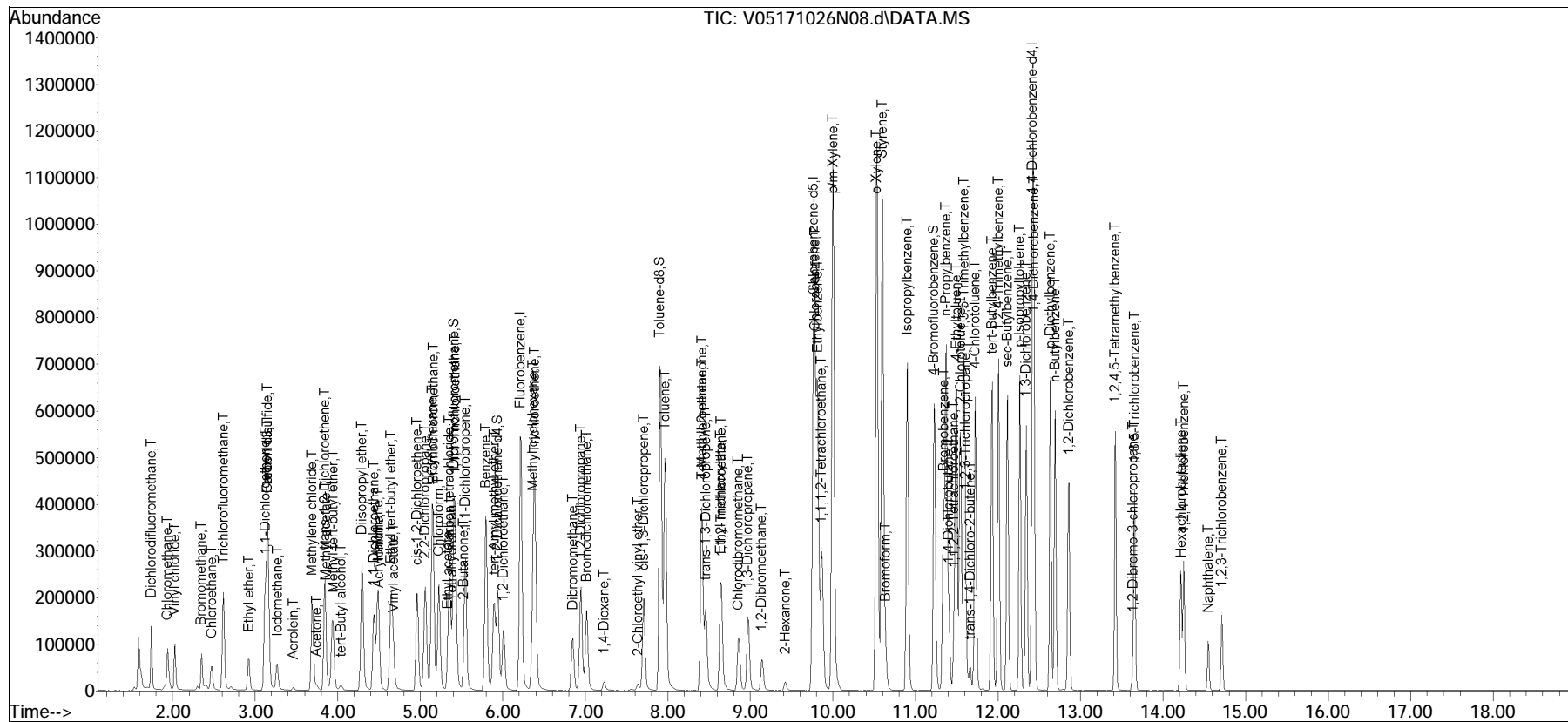
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N08.d
 Acq On : 26 Oct 2017 3:08 pm
 Operator : VOA105:PK
 Sample : ISTD3
 Misc : WG1056776,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 10:58:15 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

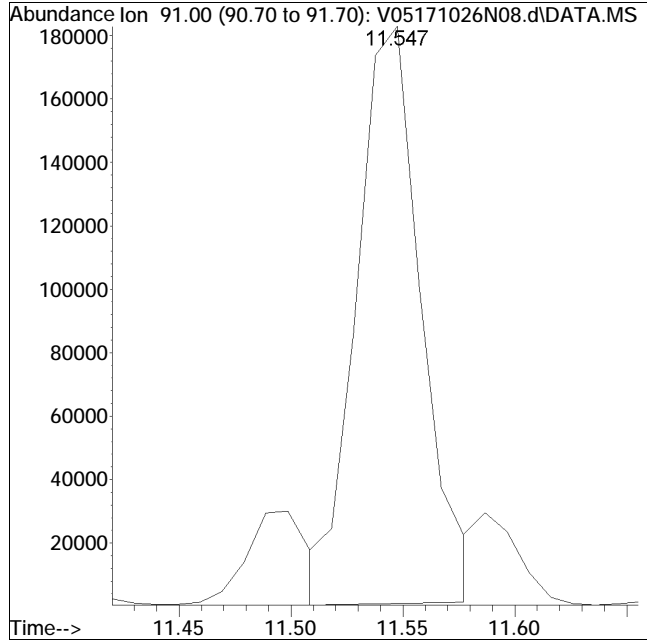
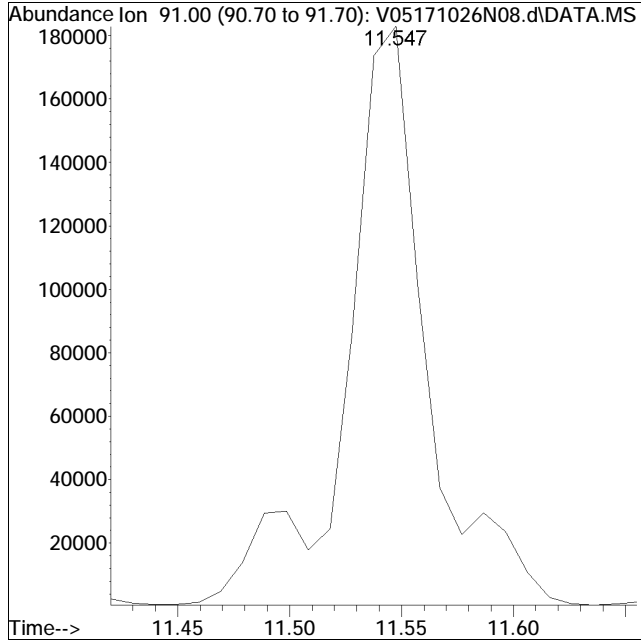
Sub List : 8260-Curve - Megamix plus Diox71026N\V05171026N08.d•



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171026N08.d Operator : VOA105:PK
Date Inj'd : 10/26/2017 3:08 pm Instrument : VOA 105
Sample : ISTD3 Quant Date : 10/27/2017 10:58 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 461549

Manual Peak Response = 365743 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N09.d
 Acq On : 26 Oct 2017 3:33 pm
 Operator : VOA105:PK
 Sample : ISTD4
 Misc : WG1056776,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 10:58:23 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.212	96	603015	10.000	ug/L	0.00	
Standard Area 1 = 569888			Recovery = 105.81%				
59) Chlorobenzene-d5	9.765	117	491044	10.000	ug/L	0.00	
Standard Area 1 = 456496			Recovery = 107.57%				
79) 1,4-Dichlorobenzene-d4	12.419	152	283733	10.000	ug/L	0.00	
Standard Area 1 = 272175			Recovery = 104.25%				
System Monitoring Compounds							
36) Dibromofluoromethane	5.410	113	172111	10.024	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.24%				
43) 1,2-Dichloroethane-d4	5.939	65	185935	9.838	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.38%				
60) Toluene-d8	7.905	98	621185	9.868	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.68%				
83) 4-Bromofluorobenzene	11.224	95	231456	9.713	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.13%				
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.743	85	312925	32.977	ug/L		99
3) Chloromethane	1.938	50	249991	29.310	ug/L		98
4) Vinyl chloride	2.026	62	262636	33.228	ug/L		97
5) Bromomethane	2.349	94	132989	31.516	ug/L		100
6) Chloroethane	2.466	64	145515	31.543	ug/L		99
7) Trichlorofluoromethane	2.613	101	585194	33.191	ug/L		100
8) Ethyl ether	2.926	74	92233	31.079	ug/L		91
10) 1,1-Dichloroethene	3.122	96	274003	32.429	ug/L		89
11) Carbon disulfide	3.151	76	706504	31.694	ug/L		100
12) Freon-113	3.151	101	309740	32.690	ug/L	#	79
13) Iodomethane	3.268	142	301196	28.095	ug/L		94
14) Acrolein	3.464	56	19811	29.426	ug/L		98
15) Methylene chloride	3.689	84	291248	30.177	ug/L		90
17) Acetone	3.738	43	40294	26.995	ug/L		100
18) trans-1,2-Dichloroethene	3.845	96	323108	32.309	ug/L		91
19) Methyl acetate	3.855	43	89430	29.498	ug/L		93
20) Methyl tert-butyl ether	3.943	73	518323	32.167	ug/L		96
21) tert-Butyl alcohol	4.041	59	37468	143.905	ug/L		92
22) Diisopropyl ether	4.295	45	810937	32.820	ug/L		97
23) 1,1-Dichloroethane	4.442	63	570667	31.505	ug/L		99
24) Halothane	4.491	117	259348	32.120	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N09.d
 Acq On : 26 Oct 2017 3:33 pm
 Operator : VOA105:PK
 Sample : ISTD4
 Misc : WG1056776,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 10:58:23 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.501	53	44138	28.349	ug/L	94
26) Ethyl tert-butyl ether	4.648	59	616185	29.342	ug/L	94
27) Vinyl acetate	4.667	43	505839	29.096	ug/L	97
28) cis-1,2-Dichloroethene	4.960	96	346815	31.949	ug/L	92
29) 2,2-Dichloropropane	5.058	77	519089	32.450	ug/L	93
30) Bromochloromethane	5.156	128	156402	31.663	ug/L #	78
31) Cyclohexane	5.146	56	493583	30.833	ug/L	88
32) Chloroform	5.225	83	627940	31.563	ug/L	98
33) Ethyl acetate	5.332	43	129187	30.876	ug/L	97
34) Carbon tetrachloride	5.352	117	572037	33.068	ug/L	99
35) Tetrahydrofuran	5.381	42	44652	28.281	ug/L	98
37) 1,1,1-Trichloroethane	5.420	97	625966	32.571	ug/L	97
39) 2-Butanone	5.528	43	53179	30.105	ug/L #	80
40) 1,1-Dichloropropene	5.547	75	496382	33.848	ug/L	96
41) Benzene	5.792	78	1245732	32.318	ug/L	99
42) tert-Amyl methyl ether	5.890	73	517886	28.745	ug/L	92
44) 1,2-Dichloroethane	6.007	62	403451	30.730	ug/L	99
47) Methyl cyclohexane	6.369	83	460340	33.098	ug/L	91
48) Trichloroethene	6.388	95	380803	31.525	ug/L	93
50) Dibromomethane	6.848	93	156850	30.774	ug/L #	82
51) 1,2-Dichloropropane	6.946	63	281192	31.875	ug/L	96
53) 2-Chloroethyl vinyl ether	7.640	63	21195	28.208	ug/L #	97
54) Bromodichloromethane	7.014	83	447247	31.996	ug/L	98
57) 1,4-Dioxane	7.230	88	21388	596.959	ug/L	90
58) cis-1,3-Dichloropropene	7.709	75	462307	29.299	ug/L	98
61) Toluene	7.963	92	872607	31.202	ug/L	98
62) 4-Methyl-2-pentanone	8.403	58	38203	25.544	ug/L #	97
63) Tetrachloroethene	8.413	166	493669	31.937	ug/L	90
65) trans-1,3-Dichloropropene	8.462	75	388717	28.387	ug/L	96
67) Ethyl methacrylate	8.638	69	237059	27.048	ug/L	98
68) 1,1,2-Trichloroethane	8.648	83	186287	30.241	ug/L	97
69) Chlorodibromomethane	8.854	129	283546	31.761	ug/L	98
70) 1,3-Dichloropropane	8.971	76	363631	31.553	ug/L	100
71) 1,2-Dibromoethane	9.138	107	199266	31.548	ug/L	97
72) 2-Hexanone	9.422	43	69913	23.936	ug/L	96
73) Chlorobenzene	9.784	112	992556	30.978	ug/L	92
74) Ethylbenzene	9.813	91	1722942	32.125	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.862	131	355110	31.441	ug/L	97
76) p/m Xylene	10.000	106	1365636	67.317	ug/L	94
77) o Xylene	10.529	106	1265480	63.833	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N09.d
 Acq On : 26 Oct 2017 3:33 pm
 Operator : VOA105:PK
 Sample : ISTD4
 Misc : WG1056776,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 10:58:23 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.597	104	2060635	64.549	ug/L	94
80) Bromoform	10.636	173	157870	30.779	ug/L	98
82) Isopropylbenzene	10.901	105	1772246	29.924	ug/L	98
84) Bromobenzene	11.342	156	439282	30.950	ug/L	99
85) n-Propylbenzene	11.371	91	1963284	32.580	ug/L	95
86) 1,4-Dichlorobutane	11.400	55	308134	30.334	ug/L	94
87) 1,1,2,2-Tetrachloroethane	11.469	83	190437	29.651	ug/L	99
88) 4-Ethyltoluene	11.498	105	1638812	33.113	ug/L	97
89) 2-Chlorotoluene	11.547	91	1174949M1	31.302	ug/L	
90) 1,3,5-Trimethylbenzene	11.587	105	1375221	32.879	ug/L	96
91) 1,2,3-Trichloropropane	11.606	75	178121	30.253	ug/L	94
92) trans-1,4-Dichloro-2-b...	11.655	53	44700	24.636	ug/L #	87
93) 4-Chlorotoluene	11.724	91	1233052	32.629	ug/L	92
94) tert-Butylbenzene	11.929	119	1143186	29.502	ug/L	94
97) 1,2,4-Trimethylbenzene	12.008	105	1390815	29.924	ug/L	96
98) sec-Butylbenzene	12.116	105	1513256	29.752	ug/L	96
99) p-Isopropyltoluene	12.262	119	1331949	29.635	ug/L	96
100) 1,3-Dichlorobenzene	12.341	146	809189	31.400	ug/L	95
101) 1,4-Dichlorobenzene	12.439	146	817157	30.244	ug/L	95
102) p-Diethylbenzene	12.635	119	755080	29.353	ug/L	95
103) n-Butylbenzene	12.694	91	1084027	29.557	ug/L	96
104) 1,2-Dichlorobenzene	12.860	146	669026	31.525	ug/L	96
105) 1,2,4,5-Tetramethylben...	13.418	119	1029803	29.010	ug/L	95
106) 1,2-Dibromo-3-chloropr...	13.634	155	22356	25.701	ug/L	95
107) 1,3,5-Trichlorobenzene	13.654	180	451538	32.086	ug/L	94
108) Hexachlorobutadiene	14.222	225	163103	31.476	ug/L	99
109) 1,2,4-Trichlorobenzene	14.251	180	288238	31.964	ug/L	97
110) Naphthalene	14.545	128	321624	25.233	ug/L	100
111) 1,2,3-Trichlorobenzene	14.711	180	159405	30.538	ug/L	97

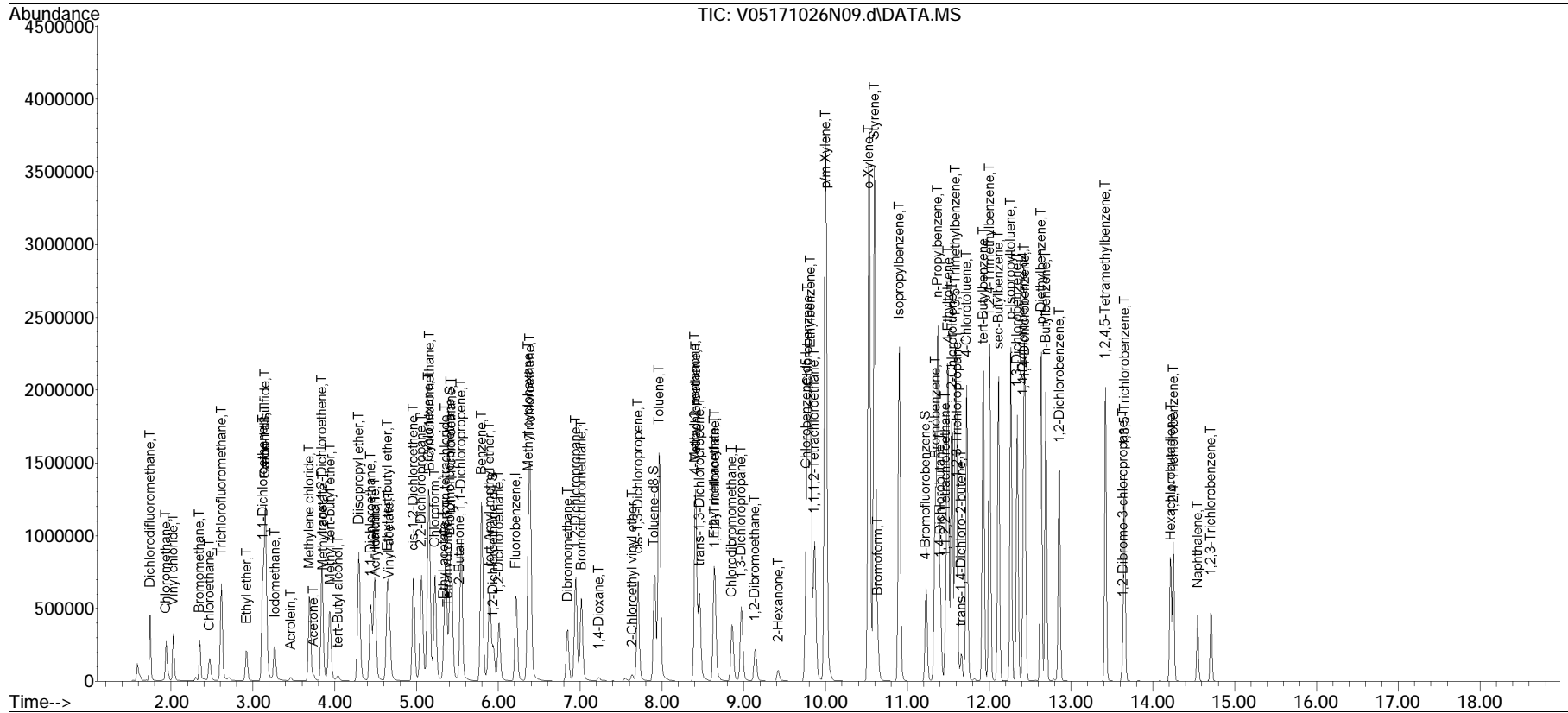
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N09.d
 Acq On : 26 Oct 2017 3:33 pm
 Operator : VOA105:PK
 Sample : ISTD4
 Misc : WG1056776,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 10:58:23 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

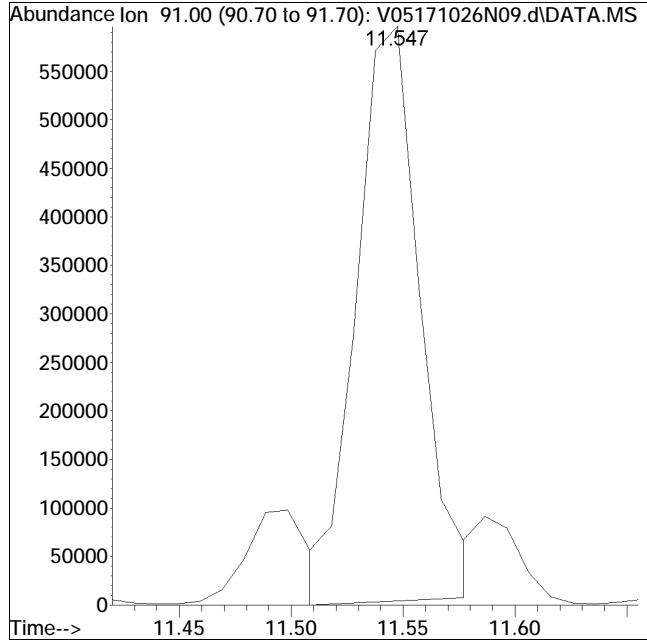
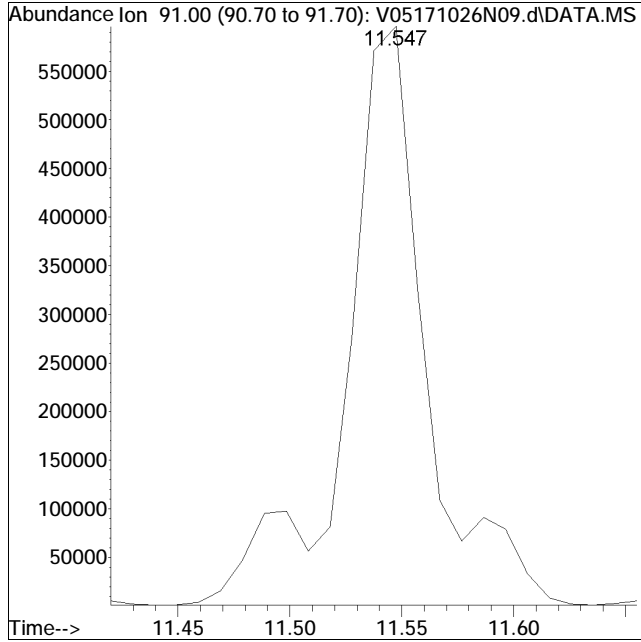
Sub List : 8260-Curve - Megamix plus Diox71026N\V05171026N08.d•



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171026N09.d Operator : VOA105:PK
Date Inj'd : 10/26/2017 3:33 pm Instrument : VOA 105
Sample : ISTD4 Quant Date : 10/27/2017 10:58 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 1491239

Manual Peak Response = 1174949 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N10.d
 Acq On : 26 Oct 2017 3:58 pm
 Operator : VOA105:PK
 Sample : ISTD6
 Misc : WG1056776,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 10:58:33 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.222	96	669150	10.000	ug/L	0.00	
Standard Area 1 = 569888			Recovery =	117.42%			
59) Chlorobenzene-d5	9.764	117	540234	10.000	ug/L	0.00	
Standard Area 1 = 456496			Recovery =	118.34%			
79) 1,4-Dichlorobenzene-d4	12.419	152	317490	10.000	ug/L	0.00	
Standard Area 1 = 272175			Recovery =	116.65%			
System Monitoring Compounds							
36) Dibromofluoromethane	5.410	113	188525	9.895	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.95%			
43) 1,2-Dichloroethane-d4	5.939	65	201967	9.630	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.30%			
60) Toluene-d8	7.904	98	684782	9.888	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.88%			
83) 4-Bromofluorobenzene	11.224	95	260432	9.767	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.67%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.743	85	876640	83.252	ug/L		99
3) Chloromethane	1.938	50	728849	77.007	ug/L		98
4) Vinyl chloride	2.026	62	773601	88.202	ug/L		97
5) Bromomethane	2.349	94	424422	90.639	ug/L		99
6) Chloroethane	2.457	64	407079	79.520	ug/L		99
7) Trichlorofluoromethane	2.613	101	1615675	82.581	ug/L		100
8) Ethyl ether	2.916	74	273153	82.946	ug/L		91
10) 1,1-Dichloroethene	3.122	96	795046	84.796	ug/L		90
11) Carbon disulfide	3.151	76	2097501	84.794	ug/L		100
12) Freon-113	3.151	101	889622	84.612	ug/L	#	83
13) Iodomethane	3.268	142	999612	82.613	ug/L		93
14) Acrolein	3.454	56	68300	91.423	ug/L		100
15) Methylene chloride	3.689	84	849825	79.349	ug/L		90
17) Acetone	3.738	43	123971	74.846	ug/L		97
18) trans-1,2-Dichloroethene	3.845	96	943464	85.017	ug/L		91
19) Methyl acetate	3.855	43	284356	84.524	ug/L		95
20) Methyl tert-butyl ether	3.943	73	1629885	91.153	ug/L		94
21) tert-Butyl alcohol	4.041	59	128161	443.583	ug/L		91
22) Diisopropyl ether	4.295	45	2514397	91.706	ug/L		97
23) 1,1-Dichloroethane	4.442	63	1676090	83.387	ug/L		99
24) Halothane	4.491	117	764668	85.345	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N10.d
 Acq On : 26 Oct 2017 3:58 pm
 Operator : VOA105:PK
 Sample : ISTD6
 Misc : WG1056776,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 10:58:33 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.501	53	140107	80.495	ug/L	96
26) Ethyl tert-butyl ether	4.647	59	1919555	81.796	ug/L	95
27) Vinyl acetate	4.667	43	1600985	82.352	ug/L	97
28) cis-1,2-Dichloroethene	4.960	96	1026209	85.192	ug/L	92
29) 2,2-Dichloropropane	5.058	77	1547969	87.206	ug/L	90
30) Bromochloromethane	5.156	128	459615	83.852	ug/L #	78
31) Cyclohexane	5.146	56	1450836	81.146	ug/L	87
32) Chloroform	5.225	83	1819706	82.427	ug/L	98
33) Ethyl acetate	5.332	43	422918	91.087	ug/L	99
34) Carbon tetrachloride	5.352	117	1677360	87.380	ug/L	99
35) Tetrahydrofuran	5.381	42	143583	81.370	ug/L	97
37) 1,1,1-Trichloroethane	5.420	97	1813628	85.041	ug/L	97
39) 2-Butanone	5.528	43	174154	88.845	ug/L	90
40) 1,1-Dichloropropene	5.547	75	1454112	89.354	ug/L	96
41) Benzene	5.792	78	3653013	85.402	ug/L	99
42) tert-Amyl methyl ether	5.890	73	1653415	82.051	ug/L	89
44) 1,2-Dichloroethane	6.007	62	1177786	80.843	ug/L	98
47) Methyl cyclohexane	6.369	83	1382692	89.590	ug/L	90
48) Trichloroethene	6.388	95	1104163	82.373	ug/L	93
50) Dibromomethane	6.838	93	473623	83.742	ug/L #	83
51) 1,2-Dichloropropane	6.946	63	848678	86.694	ug/L	97
53) 2-Chloroethyl vinyl ether	7.631	63	73428	88.065	ug/L #	88
54) Bromodichloromethane	7.014	83	1351748	87.145	ug/L	99
57) 1,4-Dioxane	7.230	88	35259	886.848	ug/L	90
58) cis-1,3-Dichloropropene	7.709	75	1451006	82.214	ug/L	97
61) Toluene	7.963	92	2559746	83.196	ug/L	97
62) 4-Methyl-2-pentanone	8.403	58	136762	79.995	ug/L #	91
63) Tetrachloroethene	8.413	166	1456930	85.672	ug/L	89
65) trans-1,3-Dichloropropene	8.462	75	1236252	81.341	ug/L	96
67) Ethyl methacrylate	8.638	69	794505	81.239	ug/L	95
68) 1,1,2-Trichloroethane	8.648	83	560338	82.681	ug/L	97
69) Chlorodibromomethane	8.853	129	891543	90.772	ug/L	98
70) 1,3-Dichloropropane	8.971	76	1100096	86.767	ug/L	100
71) 1,2-Dibromoethane	9.138	107	619537	89.156	ug/L	97
72) 2-Hexanone	9.412	43	259173	78.913	ug/L	93
73) Chlorobenzene	9.784	112	2908877	82.521	ug/L	92
74) Ethylbenzene	9.813	91	5070746	85.937	ug/L	96
75) 1,1,1,2-Tetrachloroethane	9.872	131	1077876	86.744	ug/L	97
76) p/m Xylene	10.000	106	4015586	179.920	ug/L	93
77) o Xylene	10.529	106	3734975	170.591	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N10.d
 Acq On : 26 Oct 2017 3:58 pm
 Operator : VOA105:PK
 Sample : ISTD6
 Misc : WG1056776,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 10:58:33 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.597	104	6077209	172.439	ug/L	95
80) Bromoform	10.636	173	514058	89.567	ug/L	98
82) Isopropylbenzene	10.901	105	5264790	78.896	ug/L	97
84) Bromobenzene	11.342	156	1306197	82.244	ug/L	100
85) n-Propylbenzene	11.371	91	5801040	86.030	ug/L	94
86) 1,4-Dichlorobutane	11.400	55	960289	84.483	ug/L	96
87) 1,1,2,2-Tetrachloroethane	11.469	83	587159	81.701	ug/L	99
88) 4-Ethyltoluene	11.498	105	4916178	88.771	ug/L	97
89) 2-Chlorotoluene	11.547	91	3504577M1	83.439	ug/L	
90) 1,3,5-Trimethylbenzene	11.587	105	4072638	87.018	ug/L	96
91) 1,2,3-Trichloropropane	11.606	75	521209	79.112	ug/L	91
92) trans-1,4-Dichloro-2-b...	11.655	53	157851	76.401	ug/L #	81
93) 4-Chlorotoluene	11.724	91	3613505	85.455	ug/L	91
94) tert-Butylbenzene	11.929	119	3451009	78.993	ug/L	94
97) 1,2,4-Trimethylbenzene	12.008	105	4148192	79.227	ug/L	95
98) sec-Butylbenzene	12.116	105	4504203	78.613	ug/L	95
99) p-Isopropyltoluene	12.262	119	4009231	79.061	ug/L	96
100) 1,3-Dichlorobenzene	12.341	146	2438794	84.574	ug/L	95
101) 1,4-Dichlorobenzene	12.439	146	2452255	81.110	ug/L	95
102) p-Diethylbenzene	12.635	119	2285571	78.698	ug/L	95
103) n-Butylbenzene	12.693	91	3223161	78.038	ug/L	96
104) 1,2-Dichlorobenzene	12.860	146	2021196	85.115	ug/L	96
105) 1,2,4,5-Tetramethylben...	13.418	119	3189784	79.376	ug/L	95
106) 1,2-Dibromo-3-chloropr...	13.634	155	78058	78.949	ug/L	96
107) 1,3,5-Trichlorobenzene	13.653	180	1354571	86.020	ug/L	94
108) Hexachlorobutadiene	14.212	225	479085	82.624	ug/L	99
109) 1,2,4-Trichlorobenzene	14.251	180	918328	91.011	ug/L	97
110) Naphthalene	14.545	128	1143438	78.888	ug/L	100
111) 1,2,3-Trichlorobenzene	14.711	180	522495	89.453	ug/L	98

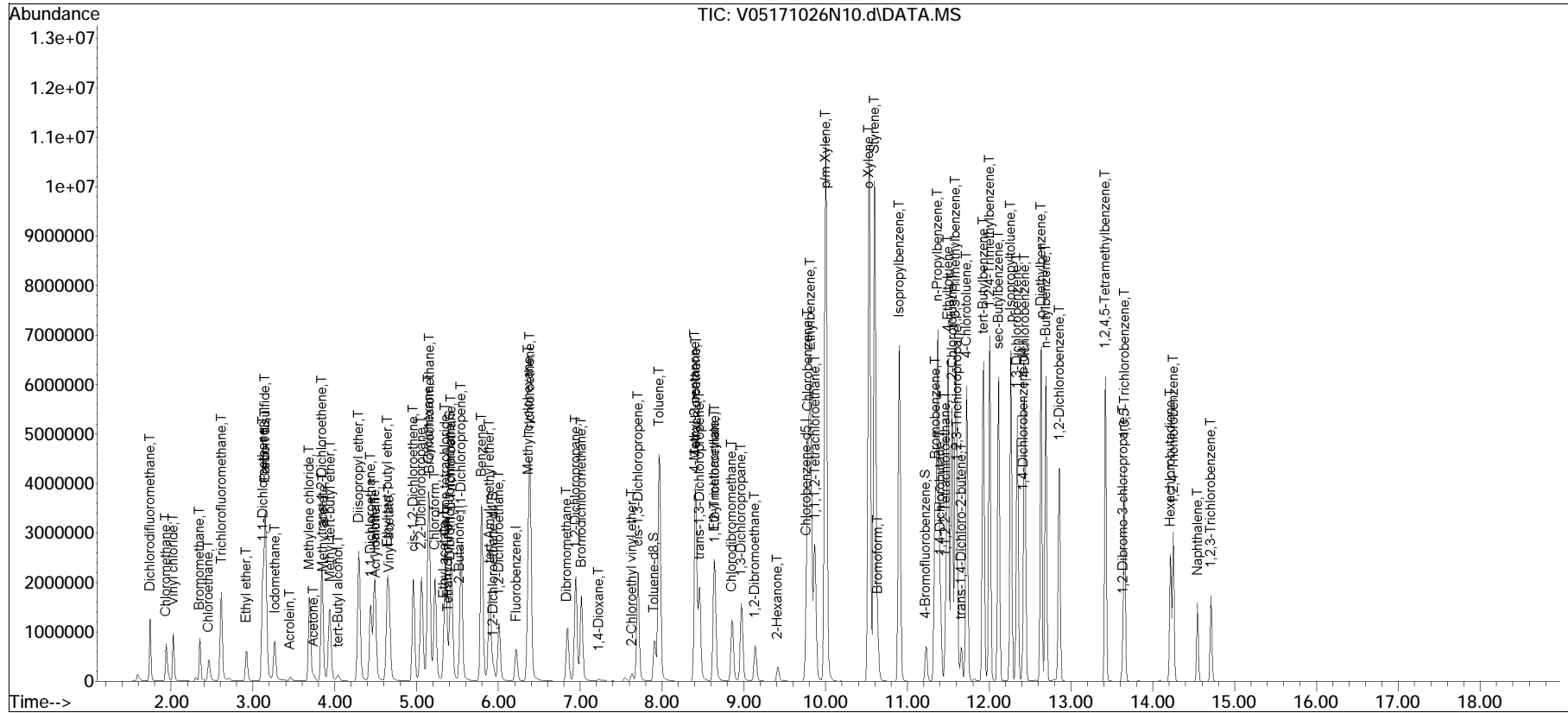
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N10.d
 Acq On : 26 Oct 2017 3:58 pm
 Operator : VOA105:PK
 Sample : ISTD6
 Misc : WG1056776,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 10:58:33 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

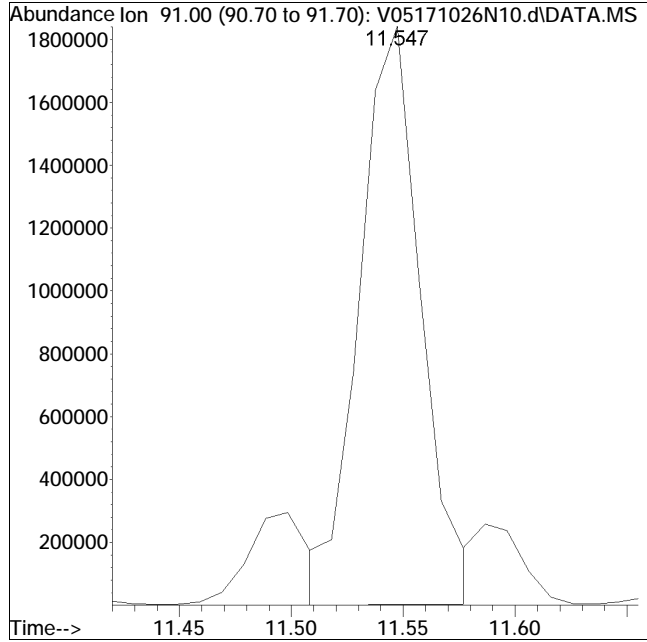
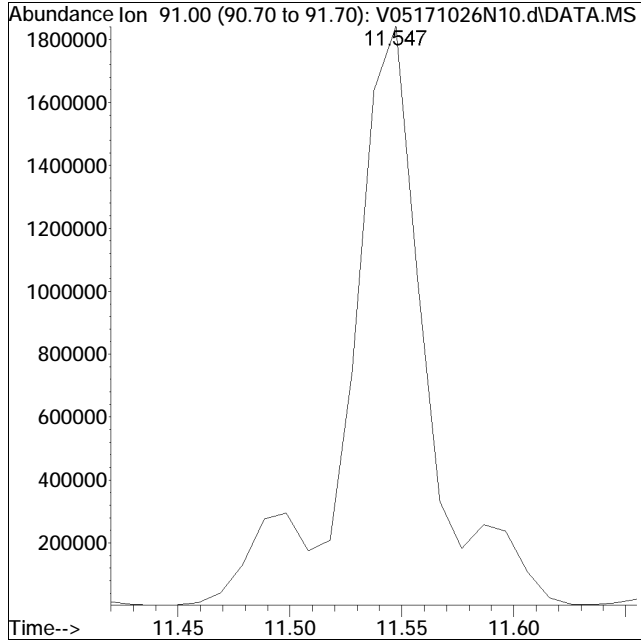
Sub List : 8260-Curve - Megamix plus Diox71026N\V05171026N08.d•



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171026N10.d Operator : VOA105:PK
Date Inj'd : 10/26/2017 3:58 pm Instrument : VOA 105
Sample : ISTDL6 Quant Date : 10/27/2017 10:58 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 4404929

Manual Peak Response = 3504577 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N11.d
 Acq On : 26 Oct 2017 4:24 pm
 Operator : VOA105:PK
 Sample : ISTD18
 Misc : WG1056776,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 10:58:41 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.212	96	749839	10.000	ug/L	0.00	
Standard Area 1 = 569888			Recovery =	131.58%			
59) Chlorobenzene-d5	9.765	117	601406	10.000	ug/L	0.00	
Standard Area 1 = 456496			Recovery =	131.74%			
79) 1,4-Dichlorobenzene-d4	12.419	152	331689	10.000	ug/L	0.00	
Standard Area 1 = 272175			Recovery =	121.87%			
System Monitoring Compounds							
36) Dibromofluoromethane	5.410	113	205646	9.632	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.32%			
43) 1,2-Dichloroethane-d4	5.939	65	220474	9.381	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.81%			
60) Toluene-d8	7.914	98	765401	9.928	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.28%			
83) 4-Bromofluorobenzene	11.224	95	284403	10.210	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.10%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.743	85	1381053	117.041	ug/L		99
3) Chloromethane	1.938	50	1243827	117.276	ug/L		98
4) Vinyl chloride	2.026	62	1282624	130.501	ug/L		96
5) Bromomethane	2.349	94	701575	133.704	ug/L		100
6) Chloroethane	2.457	64	635729	110.822	ug/L		98
7) Trichlorofluoromethane	2.613	101	2447351	111.629	ug/L		99
8) Ethyl ether	2.916	74	443935	120.299	ug/L		91
10) 1,1-Dichloroethene	3.122	96	1269654	120.844	ug/L		90
11) Carbon disulfide	3.151	76	3452402	124.548	ug/L		100
12) Freon-113	3.151	101	1409611	119.641	ug/L	#	87
13) Iodomethane	3.268	142	1629129	119.829	ug/L		92
14) Acrolein	3.454	56	116122	138.710	ug/L		99
15) Methylene chloride	3.689	84	1376595	114.703	ug/L		91
17) Acetone	3.738	43	203547	109.665	ug/L		95
18) trans-1,2-Dichloroethene	3.846	96	1529660	123.008	ug/L		92
19) Methyl acetate	3.855	43	474824	125.952	ug/L		96
20) Methyl tert-butyl ether	3.934	73	2673456	133.427	ug/L		93
21) tert-Butyl alcohol	4.041	59	224734	694.134	ug/L		87
22) Diisopropyl ether	4.295	45	4179884	136.045	ug/L		96
23) 1,1-Dichloroethane	4.442	63	2733213	121.347	ug/L		99
24) Halothane	4.491	117	1230503	122.558	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N11.d
 Acq On : 26 Oct 2017 4:24 pm
 Operator : VOA105:PK
 Sample : ISTD18
 Misc : WG1056776,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 10:58:41 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.501	53	238217	121.967	ug/L	98
26) Ethyl tert-butyl ether	4.648	59	3177371	120.672	ug/L	95
27) Vinyl acetate	4.667	43	2642171	121.121	ug/L	97
28) cis-1,2-Dichloroethene	4.961	96	1673203	123.955	ug/L	92
29) 2,2-Dichloropropane	5.058	77	2474851	124.419	ug/L	89
30) Bromochloromethane	5.156	128	737098	120.005	ug/L #	79
31) Cyclohexane	5.146	56	2399896	119.631	ug/L	89
32) Chloroform	5.225	83	2897862	117.138	ug/L	98
33) Ethyl acetate	5.332	43	710255	136.512	ug/L	99
34) Carbon tetrachloride	5.352	117	2638028	122.636	ug/L	99
35) Tetrahydrofuran	5.381	42	240655	121.554	ug/L	97
37) 1,1,1-Trichloroethane	5.420	97	2883699	120.666	ug/L	97
39) 2-Butanone	5.528	43	290203	132.116	ug/L	93
40) 1,1-Dichloropropene	5.547	75	2346878	128.695	ug/L	96
41) Benzene	5.792	78	5915024	123.404	ug/L	99
42) tert-Amyl methyl ether	5.899	73	2734424	120.929	ug/L	88
44) 1,2-Dichloroethane	6.007	62	1855542	113.658	ug/L	98
47) Methyl cyclohexane	6.369	83	2283249	132.021	ug/L	90
48) Trichloroethene	6.389	95	1771622	117.945	ug/L	93
50) Dibromomethane	6.838	93	767835	121.153	ug/L #	84
51) 1,2-Dichloropropane	6.946	63	1404984	128.078	ug/L	98
53) 2-Chloroethyl vinyl ether	7.631	63	111990	119.860	ug/L #	90
54) Bromodichloromethane	7.015	83	2191433	126.075	ug/L	99
57) 1,4-Dioxane	7.230	88	62156	1395.139	ug/L	89
58) cis-1,3-Dichloropropene	7.709	75	2397472	121.053	ug/L	95
61) Toluene	7.963	92	4123141	120.379	ug/L	98
62) 4-Methyl-2-pentanone	8.403	58	233085	121.733	ug/L #	90
63) Tetrachloroethene	8.413	166	2287908	120.852	ug/L	90
65) trans-1,3-Dichloropropene	8.462	75	2024454	119.475	ug/L	94
67) Ethyl methacrylate	8.638	69	1322262	121.171	ug/L	93
68) 1,1,2-Trichloroethane	8.648	83	909731	120.583	ug/L	97
69) Chlorodibromomethane	8.854	129	1434921	131.235	ug/L	99
70) 1,3-Dichloropropane	8.971	76	1801675	127.649	ug/L	100
71) 1,2-Dibromoethane	9.138	107	1014750	131.176	ug/L	98
72) 2-Hexanone	9.412	43	445188	121.364	ug/L	92
73) Chlorobenzene	9.784	112	4670262	119.014	ug/L	92
74) Ethylbenzene	9.814	91	8123202	123.666	ug/L	96
75) 1,1,1,2-Tetrachloroethane	9.872	131	1733852	125.343	ug/L	98
76) p/m Xylene	10.000	106	6338553	255.114	ug/L	94
77) o Xylene	10.538	106	5890479	241.513	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N11.d
 Acq On : 26 Oct 2017 4:24 pm
 Operator : VOA105:PK
 Sample : ISTD18
 Misc : WG1056776,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 10:58:41 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.597	104	9531512	242.800	ug/L	95
80) Bromoform	10.636	173	822346	137.148	ug/L	98
82) Isopropylbenzene	10.901	105	8373481	119.937	ug/L	97
84) Bromobenzene	11.342	156	2065983	124.514	ug/L	99
85) n-Propylbenzene	11.371	91	9275815	131.672	ug/L	94
86) 1,4-Dichlorobutane	11.400	55	1558012	131.201	ug/L	97
87) 1,1,2,2-Tetrachloroethane	11.469	83	941899	125.452	ug/L	99
88) 4-Ethyltoluene	11.498	105	7800688	134.826	ug/L	96
89) 2-Chlorotoluene	11.547	91	5524245M1	125.894	ug/L	
90) 1,3,5-Trimethylbenzene	11.596	105	6475317	132.432	ug/L	96
91) 1,2,3-Trichloropropane	11.606	75	828595	120.385	ug/L	92
92) trans-1,4-Dichloro-2-b...	11.655	53	259397	119.817	ug/L #	78
93) 4-Chlorotoluene	11.724	91	5767028	130.544	ug/L	92
94) tert-Butylbenzene	11.929	119	5451867	119.270	ug/L	94
97) 1,2,4-Trimethylbenzene	12.008	105	6565723	119.867	ug/L	96
98) sec-Butylbenzene	12.116	105	7218992	120.432	ug/L	95
99) p-Isopropyltoluene	12.263	119	6404195	120.678	ug/L	96
100) 1,3-Dichlorobenzene	12.341	146	3795232	125.979	ug/L	96
101) 1,4-Dichlorobenzene	12.439	146	3818091	120.880	ug/L	96
102) p-Diethylbenzene	12.635	119	3664719	120.563	ug/L	95
103) n-Butylbenzene	12.694	91	5195913	120.253	ug/L	96
104) 1,2-Dichlorobenzene	12.860	146	3164586	127.560	ug/L	97
105) 1,2,4,5-Tetramethylben...	13.418	119	5093531	121.047	ug/L	95
106) 1,2-Dibromo-3-chloropr...	13.634	155	125523	121.203	ug/L	94
107) 1,3,5-Trichlorobenzene	13.654	180	2122320	129.005	ug/L	94
108) Hexachlorobutadiene	14.212	225	770321	127.164	ug/L	99
109) 1,2,4-Trichlorobenzene	14.251	180	1457756	138.286	ug/L	98
110) Naphthalene	14.545	128	1865922	122.891	ug/L	100
111) 1,2,3-Trichlorobenzene	14.712	180	826095	135.376	ug/L	98

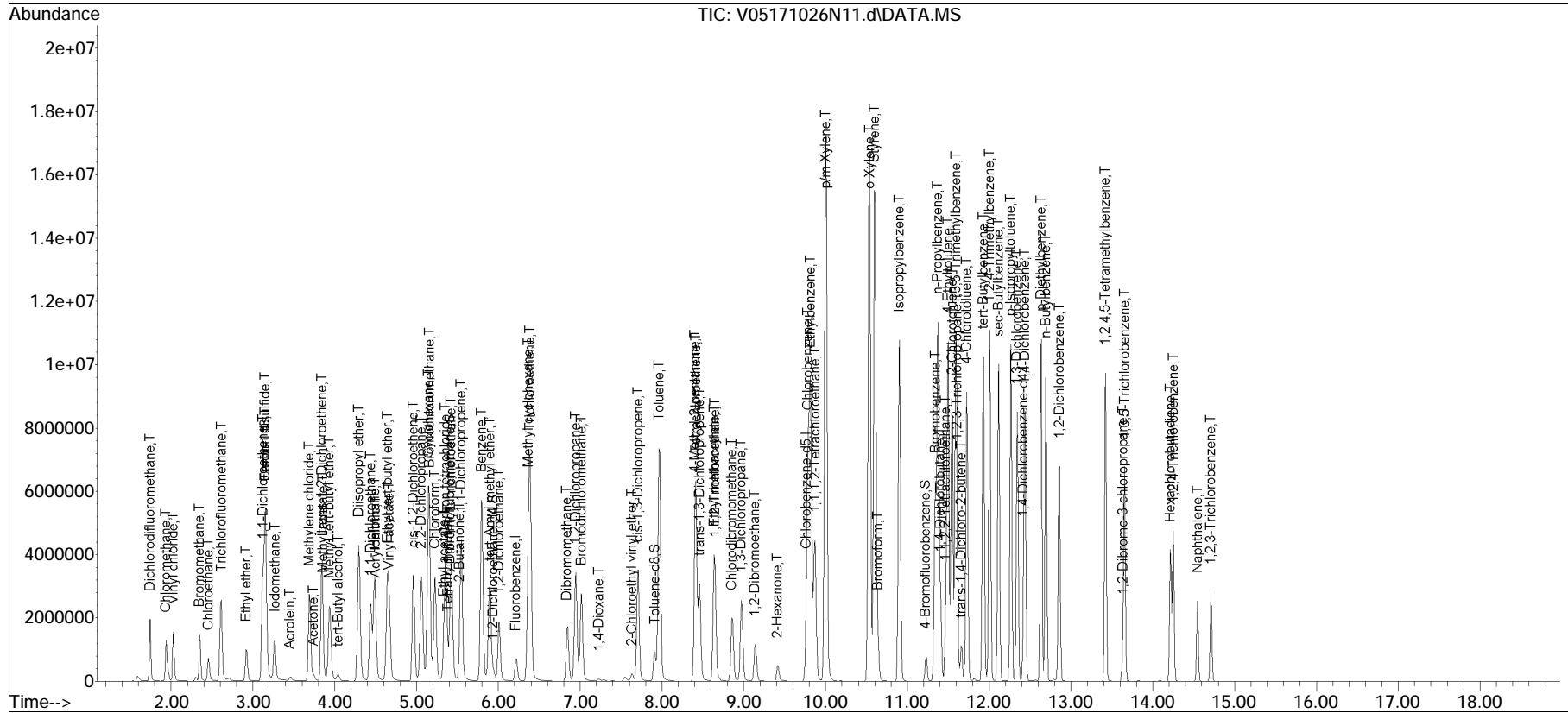
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N11.d
 Acq On : 26 Oct 2017 4:24 pm
 Operator : VOA105:PK
 Sample : ISTD18
 Misc : WG1056776,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 10:58:41 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

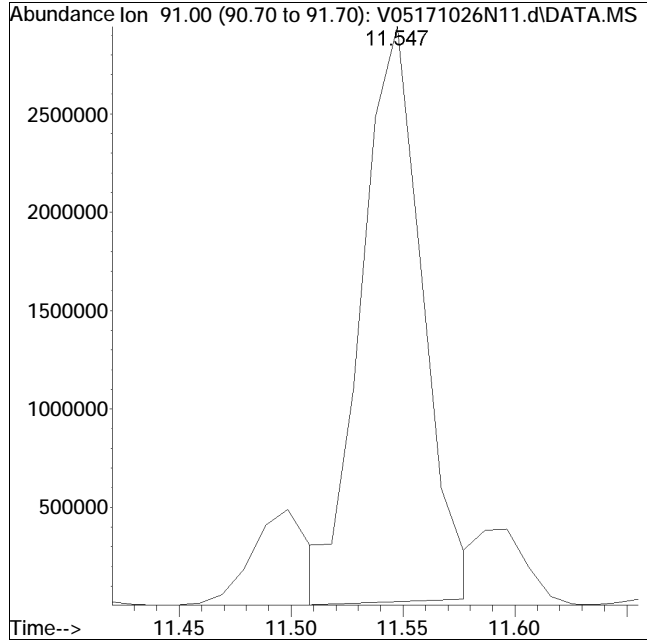
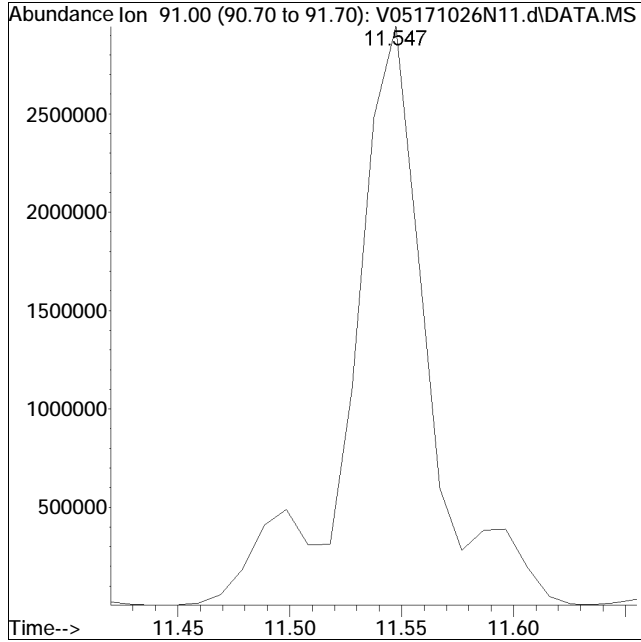
Sub List : 8260-Curve - Megamix plus Diox71026N\V05171026N08.d•



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171026N11.d Operator : VOA105:PK
Date Inj'd : 10/26/2017 4:24 pm Instrument : VOA 105
Sample : ISTD8 Quant Date : 10/27/2017 10:58 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 7028968

Manual Peak Response = 5524245 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N12.d
 Acq On : 26 Oct 2017 4:49 pm
 Operator : VOA105:PK
 Sample : ISTD10
 Misc : WG1056776,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 27 10:58:50 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.213	96	826393	10.000	ug/L	0.00	
Standard Area 1 = 569888			Recovery =	145.01%			
59) Chlorobenzene-d5	9.765	117	644445	10.000	ug/L	0.00	
Standard Area 1 = 456496			Recovery =	141.17%			
79) 1,4-Dichlorobenzene-d4	12.419	152	341723	10.000	ug/L	0.00	
Standard Area 1 = 272175			Recovery =	125.55%			
System Monitoring Compounds							
36) Dibromofluoromethane	5.410	113	219915	9.346	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.46%			
43) 1,2-Dichloroethane-d4	5.939	65	235369	9.087	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	90.87%			
60) Toluene-d8	7.914	98	834017	10.095	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.95%			
83) 4-Bromofluorobenzene	11.234	95	311289	10.847	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.47%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.743	85	2465765	189.610	ug/L		99
3) Chloromethane	1.938	50	2363573	202.208	ug/L		99
4) Vinyl chloride	2.026	62	2336385	215.696	ug/L		96
5) Bromomethane	2.349	94	1314409	227.291	ug/L		100
6) Chloroethane	2.447	64	889099	140.633	ug/L		98
7) Trichlorofluoromethane	2.603	101	4202741	173.938	ug/L		99
8) Ethyl ether	2.916	74	790292	194.317	ug/L		91
10) 1,1-Dichloroethene	3.112	96	2314515	199.885	ug/L		90
11) Carbon disulfide	3.151	76	6408043	209.760	ug/L		100
12) Freon-113	3.151	101	2538758	195.516	ug/L	#	90
13) Iodomethane	3.259	142	3037732	202.248	ug/L		91
14) Acrolein	3.454	56	215139	233.181	ug/L		98
15) Methylene chloride	3.689	84	2507096	189.548	ug/L		91
17) Acetone	3.738	43	364336	178.109	ug/L		95
18) trans-1,2-Dichloroethene	3.846	96	2806136	204.751	ug/L		91
19) Methyl acetate	3.855	43	848073	204.121	ug/L		96
20) Methyl tert-butyl ether	3.934	73	4834259	218.917	ug/L		92
21) tert-Butyl alcohol	4.041	59	433830	1215.837	ug/L		84
22) Diisopropyl ether	4.295	45	7621296	225.075	ug/L		95
23) 1,1-Dichloroethane	4.432	63	4983308	200.749	ug/L		99
24) Halothane	4.491	117	2258242	204.085	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N12.d
 Acq On : 26 Oct 2017 4:49 pm
 Operator : VOA105:PK
 Sample : ISTD10
 Misc : WG1056776,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 27 10:58:50 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.501	53	430599	199.837	ug/L	98
26) Ethyl tert-butyl ether	4.648	59	5779815	198.968	ug/L	95
27) Vinyl acetate	4.667	43	4768316	198.120	ug/L	97
28) cis-1,2-Dichloroethene	4.961	96	3055510	205.391	ug/L	92
29) 2,2-Dichloropropane	5.058	77	4589895	209.374	ug/L	88
30) Bromochloromethane	5.156	128	1296390	191.510	ug/L #	80
31) Cyclohexane	5.146	56	4404279	198.996	ug/L	89
32) Chloroform	5.225	83	5198156	190.657	ug/L	98
33) Ethyl acetate	5.332	43	1276622	222.638	ug/L	100
34) Carbon tetrachloride	5.352	117	4759605	200.766	ug/L	99
35) Tetrahydrofuran	5.381	42	434345	198.868	ug/L	97
37) 1,1,1-Trichloroethane	5.420	97	5175141	196.489	ug/L	97
39) 2-Butanone	5.528	43	519047	214.409	ug/L	94
40) 1,1-Dichloropropene	5.547	75	4256689	211.800	ug/L	96
41) Benzene	5.792	78	10695289	202.464	ug/L	99
42) tert-Amyl methyl ether	5.900	73	4969621	199.194	ug/L	87
44) 1,2-Dichloroethane	6.007	62	3274745	182.007	ug/L	98
47) Methyl cyclohexane	6.369	83	4204706	220.600	ug/L	90
48) Trichloroethene	6.389	95	3168815	191.420	ug/L	93
50) Dibromomethane	6.838	93	1375475	196.924	ug/L #	85
51) 1,2-Dichloropropane	6.946	63	2574982	212.989	ug/L	99
53) 2-Chloroethyl vinyl ether	7.631	63	221331	214.941	ug/L #	88
54) Bromodichloromethane	7.015	83	3949048	206.147	ug/L	99
57) 1,4-Dioxane	7.230	88	113319	2307.909	ug/L	90
58) cis-1,3-Dichloropropene	7.709	75	4337746	198.501	ug/L	95
61) Toluene	7.973	92	7405597	201.773	ug/L	97
62) 4-Methyl-2-pentanone	8.403	58	419166	203.357	ug/L #	88
63) Tetrachloroethene	8.413	166	4075792	200.913	ug/L	90
65) trans-1,3-Dichloropropene	8.462	75	3669858	201.852	ug/L	94
67) Ethyl methacrylate	8.638	69	2372089	202.477	ug/L	93
68) 1,1,2-Trichloroethane	8.648	83	1619027	200.266	ug/L	97
69) Chlorodibromomethane	8.863	129	2587522	220.846	ug/L	98
70) 1,3-Dichloropropane	8.971	76	3234924	213.887	ug/L	100
71) 1,2-Dibromoethane	9.138	107	1824488	220.100	ug/L	98
72) 2-Hexanone	9.412	43	822672	208.761	ug/L	91
73) Chlorobenzene	9.784	112	8310549	197.636	ug/L	93
74) Ethylbenzene	9.814	91	14376590	204.249	ug/L	96
75) 1,1,1,2-Tetrachloroethane	9.872	131	3094104	208.739	ug/L	98
76) p/m Xylene	10.009	106	10797281	405.547	ug/L	88
77) o Xylene	10.538	106	10026896	383.425	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N12.d
 Acq On : 26 Oct 2017 4:49 pm
 Operator : VOA105:PK
 Sample : ISTD10
 Misc : WG1056776,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 27 10:58:50 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.607	104	15956714	379.127	ug/L	99
80) Bromoform	10.636	173	1442653	233.535	ug/L	98
82) Isopropylbenzene	10.901	105	14543437	201.969	ug/L	97
84) Bromobenzene	11.342	156	3599920	210.592	ug/L	99
85) n-Propylbenzene	11.371	91	15909241	219.204	ug/L	93
86) 1,4-Dichlorobutane	11.410	55	2742453	224.163	ug/L	98
87) 1,1,2,2-Tetrachloroethane	11.469	83	1648602	213.131	ug/L	99
88) 4-Ethyltoluene	11.498	105	13538191	227.122	ug/L	96
89) 2-Chlorotoluene	11.547	91	9562571M1	211.527	ug/L	
90) 1,3,5-Trimethylbenzene	11.596	105	11330439	224.923	ug/L	97
91) 1,2,3-Trichloropropane	11.616	75	1503742	212.061	ug/L	95
92) trans-1,4-Dichloro-2-b...	11.665	53	472619	211.416	ug/L #	71
93) 4-Chlorotoluene	11.734	91	10170160	223.455	ug/L	93
94) tert-Butylbenzene	11.930	119	9572420	203.019	ug/L	95
97) 1,2,4-Trimethylbenzene	12.008	105	11377510	201.395	ug/L	96
98) sec-Butylbenzene	12.116	105	12479274	201.859	ug/L	95
99) p-Isopropyltoluene	12.272	119	11027366	201.432	ug/L	96
100) 1,3-Dichlorobenzene	12.341	146	6528924	210.357	ug/L	97
101) 1,4-Dichlorobenzene	12.439	146	6506114	199.934	ug/L	97
102) p-Diethylbenzene	12.635	119	6350301	202.498	ug/L	97
103) n-Butylbenzene	12.694	91	9035991	202.779	ug/L #	95
104) 1,2-Dichlorobenzene	12.860	146	5415919	211.897	ug/L	98
105) 1,2,4,5-Tetramethylben...	13.419	119	8785657	202.304	ug/L	95
106) 1,2-Dibromo-3-chloropr...	13.634	155	220113	205.885	ug/L	94
107) 1,3,5-Trichlorobenzene	13.654	180	3622996	213.757	ug/L	95
108) Hexachlorobutadiene	14.222	225	1358130	217.617	ug/L	99
109) 1,2,4-Trichlorobenzene	14.251	180	2477540	228.124	ug/L	98
110) Naphthalene	14.545	128	3224077	205.705	ug/L	100
111) 1,2,3-Trichlorobenzene	14.712	180	1393765	221.696	ug/L	98

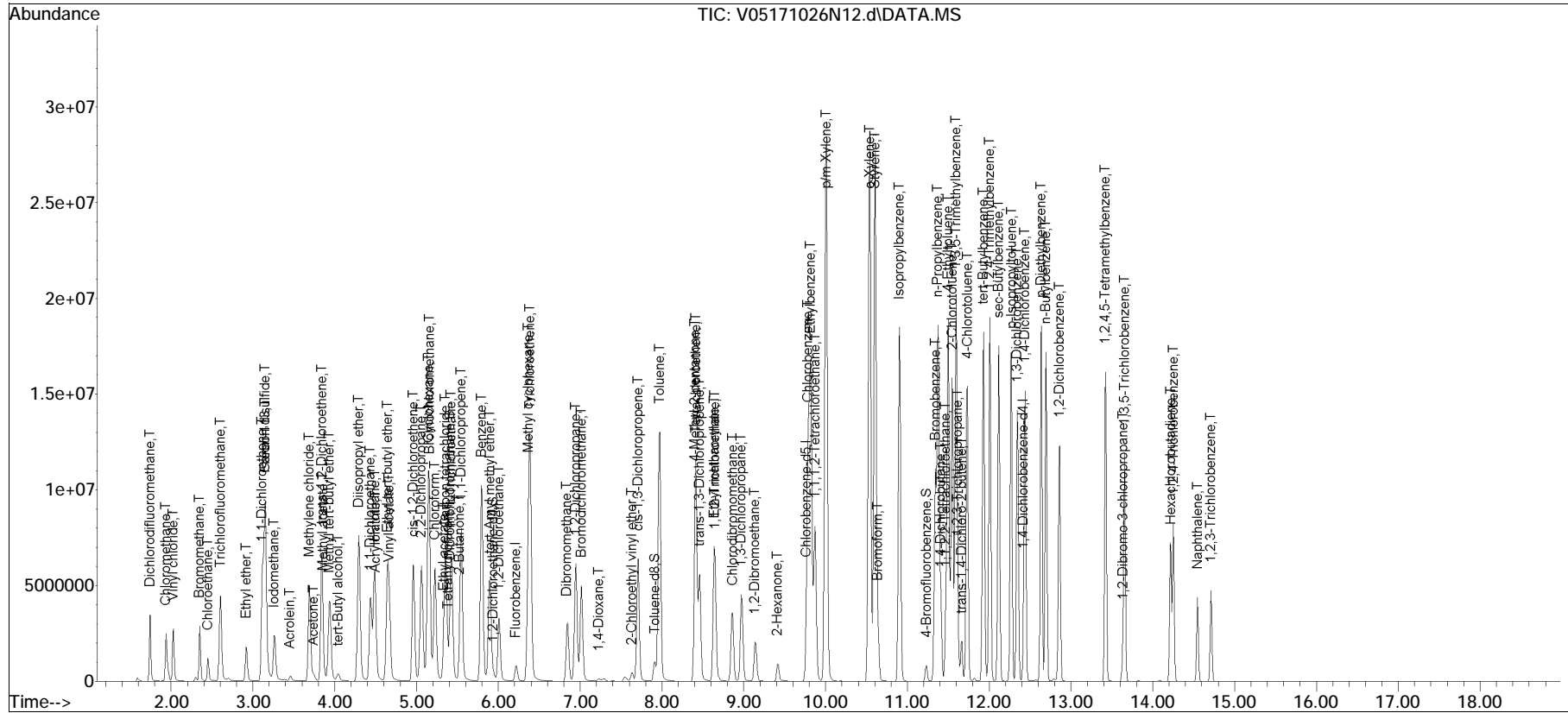
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N12.d
 Acq On : 26 Oct 2017 4:49 pm
 Operator : VOA105:PK
 Sample : ISTD10
 Misc : WG1056776,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 27 10:58:50 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

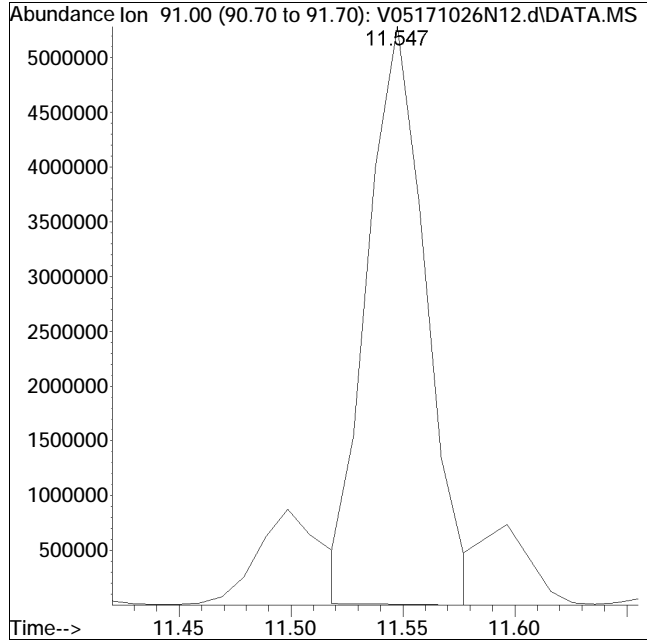
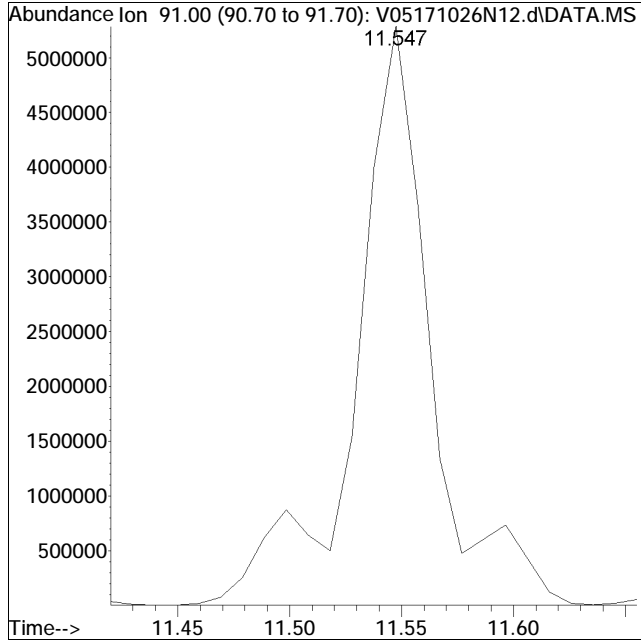
Sub List : 8260-Curve - Megamix plus Diox71026N\V05171026N08.d•



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171026N12.d Operator : VOA105:PK
Date Inj'd : 10/26/2017 4:49 pm Instrument : VOA 105
Sample : ISTD10 Quant Date : 10/27/2017 10:58 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 12420612

Manual Peak Response = 9562571 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N18.d
 Acq On : 26 Oct 2017 7:19 pm
 Operator : VOA105:PK
 Sample : CSTDL3
 Misc : WG1056776,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 26 20:59:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 19:04:36 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	129	0.00
2 T Dichlorodifluoromethane	0.157	0.192	-22.3#	149	0.00
3 T Chloromethane	0.141	0.183	-29.8#	169	0.00
4 T Vinyl chloride	0.131	0.168	-28.2#	159	0.00
5 T Bromomethane	0.070	0.058	17.1	118	0.00
6 T Chloroethane	0.077	0.086	-11.7	135	0.00
7 T Trichlorofluoromethane	0.292	0.307	-5.1	124	0.00
8 T Ethyl ether	0.049	0.053	-8.2	133	0.00
10 T 1,1-Dichloroethene	0.140	0.148	-5.7	133	0.00
11 T Carbon disulfide	0.370	0.385	-4.1	133	0.00
12 T Freon-113	0.157	0.180	-14.6	142	0.00
13 T Iodomethane	* 10.000	5.188	48.1#	85	0.00
14 T Acrolein	0.01116	0.00806	27.8#	104	0.00
15 T Methylene chloride	0.160	0.157	1.9	126	0.00
17 T Acetone	0.025	0.022	12.0	125	0.00
18 T trans-1,2-Dichloroethene	0.166	0.167	-0.6	127	0.00
19 T Methyl acetate	0.050	0.058	-16.0	151	0.00
20 T Methyl tert-butyl ether	0.267	0.268	-0.4	124	0.00
21 T tert-Butyl alcohol	0.00432	0.00415	3.9	129	0.00
22 T Diisopropyl ether	0.410	0.461	-12.4	142	0.00
23 T 1,1-Dichloroethane	0.300	0.308	-2.7	129	0.00
24 T Halothane	0.134	0.135	-0.7	126	0.00
25 T Acrylonitrile	* 10.000	9.236	7.6	126	0.00
26 T Ethyl tert-butyl ether	* 10.000	10.087	-0.9	138	0.00
27 T Vinyl acetate	* 10.000	8.212	17.9	111	0.00
28 T cis-1,2-Dichloroethene	0.180	0.191	-6.1	131	0.00
29 T 2,2-Dichloropropane	0.265	0.237	10.6	110	0.00
30 T Bromochloromethane	0.082	0.081	1.2	120	0.00
31 T Cyclohexane	* 10.000	11.583	-15.8	156	0.00
32 T Chloroform	0.330	0.323	2.1	120	0.00
33 T Ethyl acetate	0.069	0.066	4.3	119	0.00
34 T Carbon tetrachloride	0.287	0.273	4.9	116	0.00
35 T Tetrahydrofuran	* 10.000	9.688	3.1	127	0.00
36 S Dibromofluoromethane	0.285	0.268	6.0	118	0.00
37 T 1,1,1-Trichloroethane	0.319	0.309	3.1	120	0.00
39 T 2-Butanone	0.029	0.027	6.9	109	0.00
40 T 1,1-Dichloropropene	0.243	0.261	-7.4	131	0.00
41 T Benzene	0.639	0.696	-8.9	134	0.00
42 T tert-Amyl methyl ether	* 10.000	9.647	3.5	134	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N18.d
 Acq On : 26 Oct 2017 7:19 pm
 Operator : VOA105:PK
 Sample : CSTDL3
 Misc : WG1056776,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 26 20:59:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 19:04:36 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43 S	1,2-Dichloroethane-d4	0.313	0.296	5.4	115	0.00
44 T	1,2-Dichloroethane	0.218	0.196	10.1	111	0.00
47 T	Methyl cyclohexane	0.231	0.261	-13.0	145	0.00
48 T	Trichloroethene	0.200	0.198	1.0	125	0.00
50 T	Dibromomethane	0.085	0.080	5.9	116	0.00
51 T	1,2-Dichloropropane	0.146	0.153	-4.8	132	0.00
53 T	2-Chloroethyl vinyl ether	0.012	0.010	16.7	101	0.00
54 T	Bromodichloromethane	0.232	0.224	3.4	120	0.00
57 T	1,4-Dioxane	0.00059	0.00045	23.7#	104	0.00
58 T	cis-1,3-Dichloropropene	* 10.000	9.088	9.1	128	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	123	0.00
60 S	Toluene-d8	1.282	1.307	-2.0	124	0.00
61 T	Toluene	0.570	0.618	-8.4	129	0.00
62 T	4-Methyl-2-pentanone	* 10.000	8.260	17.4	123	0.00
63 T	Tetrachloroethene	0.315	0.319	-1.3	118	0.00
65 T	trans-1,3-Dichloropropene	* 10.000	8.397	16.0	114	0.00
67 T	Ethyl methacrylate	* 10.000	8.478	15.2	128	0.00
68 T	1,1,2-Trichloroethane	0.125	0.131	-4.8	123	0.00
69 T	Chlorodibromomethane	0.182	0.179	1.6	121	0.00
70 T	1,3-Dichloropropane	0.235	0.249	-6.0	124	0.00
71 T	1,2-Dibromoethane	0.129	0.132	-2.3	121	0.00
72 T	2-Hexanone	* 10.000	7.721	22.8#	136	0.00
73 T	Chlorobenzene	0.652	0.674	-3.4	124	0.00
74 T	Ethylbenzene	1.092	1.179	-8.0	127	0.00
75 T	1,1,1,2-Tetrachloroethane	0.230	0.234	-1.7	121	0.00
76 T	p/m Xylene	0.413	0.460	-11.4	124	0.00
77 T	o Xylene	* 20.000	21.200	-6.0	125	0.00
78 T	Styrene	* 20.000	21.747	-8.7	126	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.00
80 T	Bromoform	0.181	0.177	2.2	114	0.00
82 T	Isopropylbenzene	* 10.000	10.450	-4.5	124	0.00
83 S	4-Bromofluorobenzene	0.840	0.871	-3.7	118	0.00
84 T	Bromobenzene	0.500	0.536	-7.2	119	0.00
85 T	n-Propylbenzene	2.124	2.402	-13.1	122	0.00
86 T	1,4-Dichlorobutane	0.358	0.395	-10.3	123	0.00
87 T	1,1,2,2-Tetrachloroethane	0.226	0.259	-14.6	128	0.00
88 T	4-Ethyltoluene	1.744	2.100	-20.4#	129	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N18.d
 Acq On : 26 Oct 2017 7:19 pm
 Operator : VOA105:PK
 Sample : CSTDL3
 Misc : WG1056776,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 26 20:59:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 19:04:36 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
89 T	2-Chlorotoluene	1.323	1.494	-12.9	124	0.00
90 T	1,3,5-Trimethylbenzene	1.474	1.695	-15.0	123	0.00
91 T	1,2,3-Trichloropropane	0.208	0.226	-8.7	121	0.00
92 T	trans-1,4-Dichloro-2-butene *	10.000	7.260	27.4#	103	0.00
93 T	4-Chlorotoluene	1.332	1.499	-12.5	120	0.00
94 T	tert-Butylbenzene	* 10.000	10.447	-4.5	125	0.00
97 T	1,2,4-Trimethylbenzene	* 10.000	10.601	-6.0	122	0.00
98 T	sec-Butylbenzene	* 10.000	10.807	-8.1	128	0.00
99 T	p-Isopropyltoluene	* 10.000	10.371	-3.7	124	0.00
100 T	1,3-Dichlorobenzene	0.908	0.997	-9.8	120	0.00
101 T	1,4-Dichlorobenzene	0.952	1.004	-5.5	116	0.00
102 T	p-Diethylbenzene	* 10.000	9.868	1.3	122	0.00
103 T	n-Butylbenzene	* 1.156	1.332	-15.2	125	0.00
104 T	1,2-Dichlorobenzene	0.748	0.818	-9.4	120	0.00
105 T	1,2,4,5-Tetramethylbenzene *	10.000	9.452	5.5	124	0.00
106 T	1,2-Dibromo-3-chloropropane *	10.000	9.703	3.0	122	0.00
107 T	1,3,5-Trichlorobenzene	0.496	0.506	-2.0	112	0.00
108 T	Hexachlorobutadiene	0.183	0.194	-6.0	121	0.00
109 T	1,2,4-Trichlorobenzene	0.318	0.320	-0.6	116	0.00
110 T	Naphthalene	* 10.000	8.095	19.0	123	0.00
111 T	1,2,3-Trichlorobenzene	0.184	0.185	-0.5	112	0.00

* Evaluation of CC level amount vs concentration.

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N18.d
 Acq On : 26 Oct 2017 7:19 pm
 Operator : VOA105:PK
 Sample : CSTDL3
 Misc : WG1056776,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 26 20:59:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 19:04:36 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.213	96	733217	10.000	ug/L	0.00	
Standard Area 1 = 569888			Recovery = 128.66%				
59) Chlorobenzene-d5	9.765	117	562907	10.000	ug/L	0.00	
Standard Area 1 = 456496			Recovery = 123.31%				
79) 1,4-Dichlorobenzene-d4	12.419	152	302488	10.000	ug/L	0.00	
Standard Area 1 = 272175			Recovery = 111.14%				
System Monitoring Compounds							
36) Dibromofluoromethane	5.410	113	196141	9.402	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.02%				
43) 1,2-Dichloroethane-d4	5.939	65	217287	9.486	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.86%				
60) Toluene-d8	7.905	98	735804	10.188	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.88%				
83) 4-Bromofluorobenzene	11.224	95	263541	10.384	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.84%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.743	85	140933	12.229	ug/L	99	
3) Chloromethane	1.938	50	134493	13.020	ug/L	99	
4) Vinyl chloride	2.026	62	123117	12.787	ug/L	99	
5) Bromomethane	2.349	94	42409	8.163	ug/L	99	
6) Chloroethane	2.476	64	63188	11.394	ug/L	99	
7) Trichlorofluoromethane	2.613	101	225098	10.560	ug/L	100	
8) Ethyl ether	2.926	74	38962	10.599	ug/L	94	
10) 1,1-Dichloroethene	3.122	96	108292	10.509	ug/L	88	
11) Carbon disulfide	3.151	76	282194	10.389	ug/L	100	
12) Freon-113	3.151	101	132026	11.435	ug/L	74	
13) Iodomethane	3.268	142	60147M1	5.188	ug/L		
14) Acrolein	3.464	56	5912	7.222	ug/L	99	
15) Methylene chloride	3.689	84	115360	9.839	ug/L	91	
17) Acetone	3.748	43	16310	9.480	ug/L	100	
18) trans-1,2-Dichloroethene	3.846	96	122238	10.112	ug/L	92	
19) Methyl acetate	3.855	43	42695	11.877	ug/L	98	
20) Methyl tert-butyl ether	3.943	73	196703	9.958	ug/L	96	
21) tert-Butyl alcohol	4.041	59	15207	48.615	ug/L	91	
22) Diisopropyl ether	4.295	45	337792	11.320	ug/L	98	
23) 1,1-Dichloroethane	4.442	63	225934	10.262	ug/L	99	
24) Halothane	4.491	117	98851	9.934	ug/L	99	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N18.d
 Acq On : 26 Oct 2017 7:19 pm
 Operator : VOA105:PK
 Sample : CSTDL3
 Misc : WG1056776,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 26 20:59:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 19:04:36 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.501	53	16947	9.236	ug/L	95
26) Ethyl tert-butyl ether	4.648	59	252004	10.087	ug/L	86
27) Vinyl acetate	4.677	43	168316	8.212	ug/L	99
28) cis-1,2-Dichloroethene	4.961	96	140060	10.631	ug/L	90
29) 2,2-Dichloropropane	5.058	77	173872	8.905	ug/L	94
30) Bromochloromethane	5.156	128	59733	9.897	ug/L #	81
31) Cyclohexane	5.146	56	221350	11.583	ug/L	90
32) Chloroform	5.225	83	236785	9.750	ug/L	98
33) Ethyl acetate	5.332	43	48061	9.492	ug/L	98
34) Carbon tetrachloride	5.352	117	200091	9.475	ug/L	99
35) Tetrahydrofuran	5.381	42	18236	9.688	ug/L	97
37) 1,1,1-Trichloroethane	5.420	97	226543	9.712	ug/L	98
39) 2-Butanone	5.528	43	19748	9.232	ug/L	85
40) 1,1-Dichloropropene	5.547	75	191626	10.815	ug/L	97
41) Benzene	5.792	78	510519	10.901	ug/L	98
42) tert-Amyl methyl ether	5.900	73	205952	9.647	ug/L	94
44) 1,2-Dichloroethane	6.007	62	144039	9.030	ug/L	99
47) Methyl cyclohexane	6.369	83	191520	11.338	ug/L	91
48) Trichloroethene	6.389	95	145370	9.904	ug/L	93
50) Dibromomethane	6.848	93	58491	9.486	ug/L #	84
51) 1,2-Dichloropropane	6.946	63	112454	10.424	ug/L	98
53) 2-Chloroethyl vinyl ether	7.641	63	7498M1	8.207	ug/L	
54) Bromodichloromethane	7.015	83	163927	9.582	ug/L	100
57) 1,4-Dioxane	7.230	88	16662	387.063	ug/L	92
58) cis-1,3-Dichloropropene	7.709	75	169571	9.088	ug/L	95
61) Toluene	7.963	92	347875	10.851	ug/L	98
62) 4-Methyl-2-pentanone	8.413	58	13663	8.260	ug/L	97
63) Tetrachloroethene	8.413	166	179838	10.151	ug/L	90
65) trans-1,3-Dichloropropene	8.462	75	127477	8.397	ug/L	95
67) Ethyl methacrylate	8.638	69	81525	8.478	ug/L	92
68) 1,1,2-Trichloroethane	8.648	83	73945	10.468	ug/L	99
69) Chlorodibromomethane	8.863	129	100680	9.807	ug/L	98
70) 1,3-Dichloropropane	8.971	76	140007	10.585	ug/L	100
71) 1,2-Dibromoethane	9.138	107	74377	10.235	ug/L	98
72) 2-Hexanone	9.422	43	24049	7.721	ug/L	98
73) Chlorobenzene	9.784	112	379210	10.334	ug/L	93
74) Ethylbenzene	9.814	91	663528	10.848	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.863	131	131585	10.163	ug/L	99
76) p/m Xylene	10.000	106	517748	22.222	ug/L	93
77) o Xylene	10.529	106	475680	21.200	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N18.d
 Acq On : 26 Oct 2017 7:19 pm
 Operator : VOA105:PK
 Sample : CSTDL3
 Misc : WG1056776,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 26 20:59:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 19:04:36 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171026N\V05171026N08.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.597	104	787825	21.747	ug/L	94
80) Bromoform	10.636	173	53552	9.847	ug/L	98
82) Isopropylbenzene	10.901	105	645714	10.450	ug/L	99
84) Bromobenzene	11.342	156	162185	10.806	ug/L	99
85) n-Propylbenzene	11.371	91	726697	11.301	ug/L	96
86) 1,4-Dichlorobutane	11.400	55	119431	11.091	ug/L	96
87) 1,1,2,2-Tetrachloroethane	11.469	83	78339	11.524	ug/L	98
88) 4-Ethyltoluene	11.498	105	635366	12.019	ug/L	98
89) 2-Chlorotoluene	11.547	91	452028M1	11.316	ug/L	
90) 1,3,5-Trimethylbenzene	11.587	105	512710	11.496	ug/L	95
91) 1,2,3-Trichloropropane	11.606	75	68503M1	11.059	ug/L	
92) trans-1,4-Dichloro-2-b...	11.665	53	13085	7.260	ug/L #	44
93) 4-Chlorotoluene	11.724	91	453514	11.245	ug/L	93
94) tert-Butylbenzene	11.929	119	422244	10.447	ug/L	94
97) 1,2,4-Trimethylbenzene	12.008	105	514842	10.601	ug/L	96
98) sec-Butylbenzene	12.116	105	574922	10.807	ug/L	97
99) p-Isopropyltoluene	12.263	119	484734	10.371	ug/L	96
100) 1,3-Dichlorobenzene	12.341	146	301583	11.028	ug/L	96
101) 1,4-Dichlorobenzene	12.439	146	303551	10.535	ug/L	96
102) p-Diethylbenzene	12.635	119	263278	9.868	ug/L	96
103) n-Butylbenzene	12.694	91	403043	11.498	ug/L	96
104) 1,2-Dichlorobenzene	12.860	146	247464	10.884	ug/L	97
105) 1,2,4,5-Tetramethylben...	13.418	119	343902	9.452	ug/L	95
106) 1,2-Dibromo-3-chloropr...	13.634	155	8055	9.703	ug/L	97
107) 1,3,5-Trichlorobenzene	13.654	180	153154	10.199	ug/L	94
108) Hexachlorobutadiene	14.222	225	58728	10.424	ug/L	100
109) 1,2,4-Trichlorobenzene	14.251	180	96654	10.104	ug/L	97
110) Naphthalene	14.545	128	104279	8.095	ug/L	100
111) 1,2,3-Trichlorobenzene	14.712	180	55821	9.997	ug/L	97

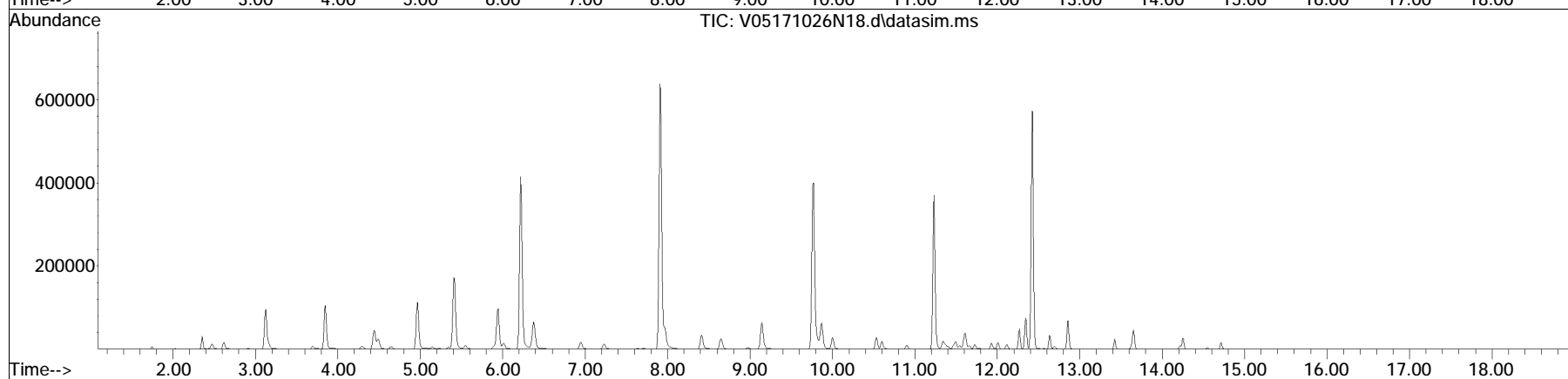
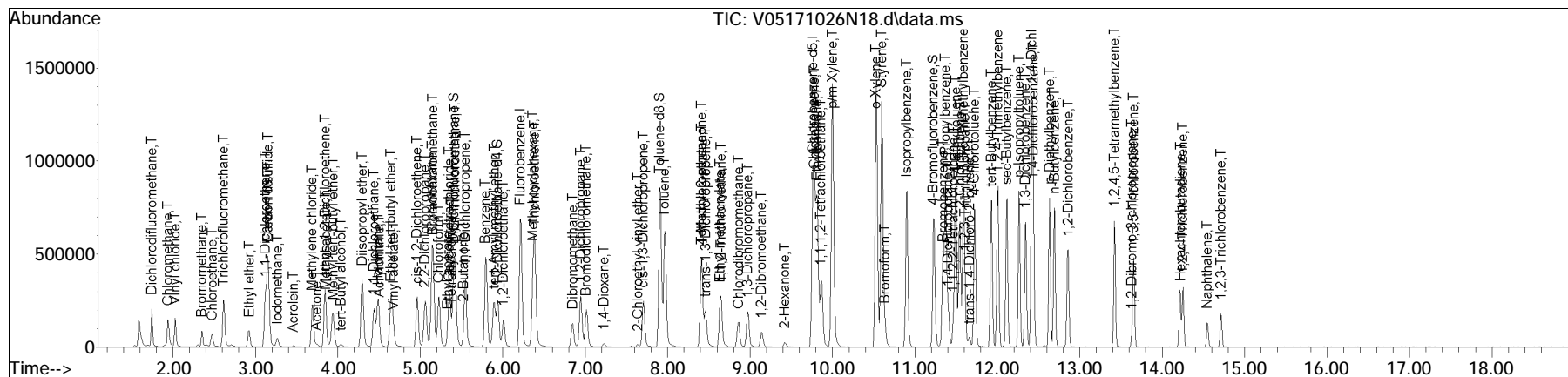
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171026N\
 Data File : V05171026N18.d
 Acq On : 26 Oct 2017 7:19 pm
 Operator : VOA105:PK
 Sample : CSTD3
 Misc : WG1056776,ICAL (Sig #1); WG,ICAL (Sig #2)
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 26 20:59:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171026N\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 19:04:36 2017
 Response via : Initial Calibration

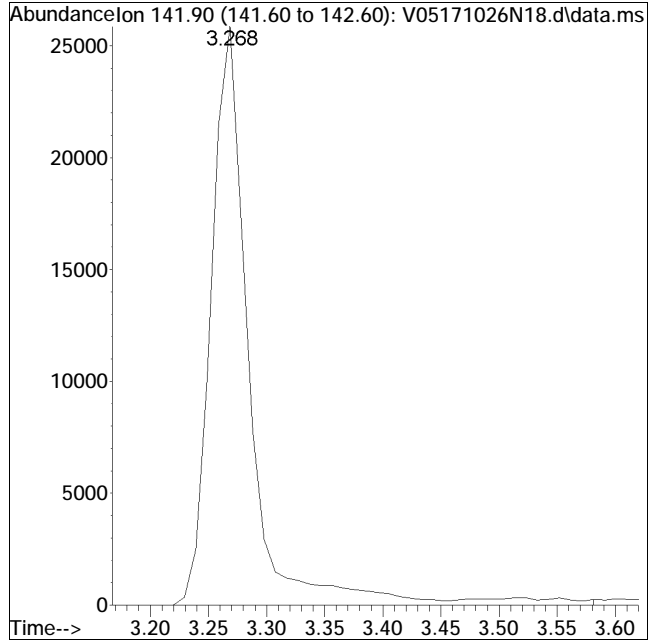
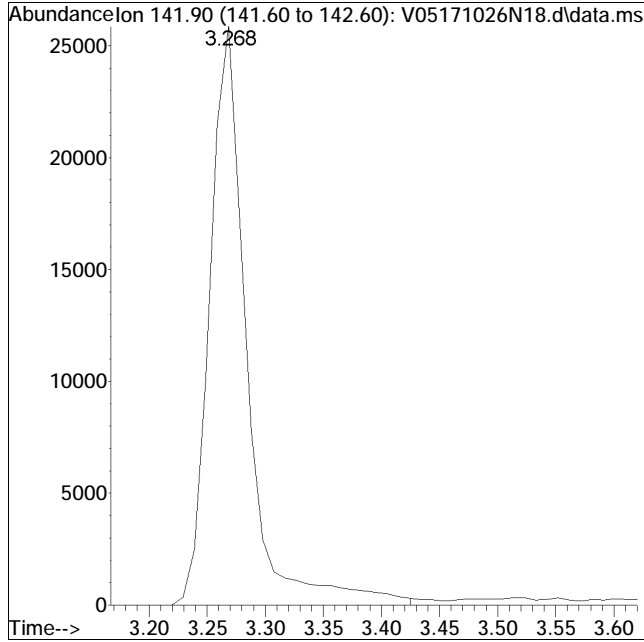
Sub List : 8260-Curve - Megamix plus Diox71026N\V05171026N08.d•



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171026N18.d Operator : VOA105:PK
Date Inj'd : 10/26/2017 7:19 pm Instrument : VOA 105
Sample : CSTDL3 Quant Date : 10/26/2017 8:55 pm

Compound #13: Iodomethane



Original Peak Response = 57753

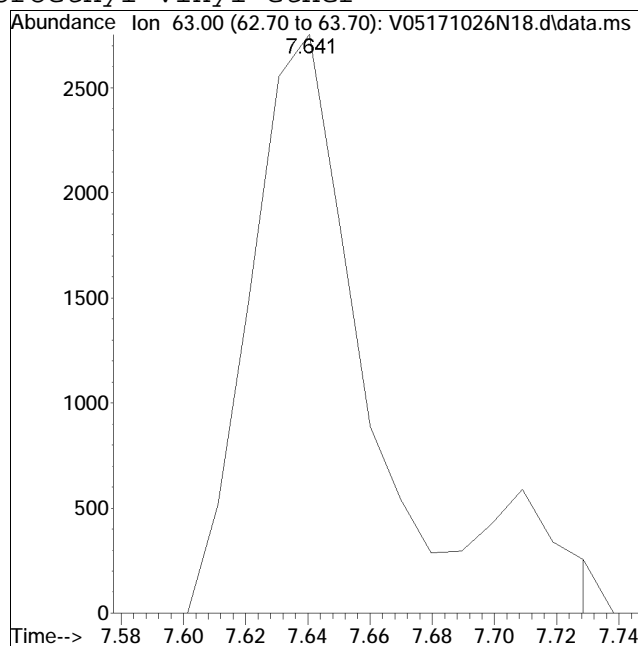
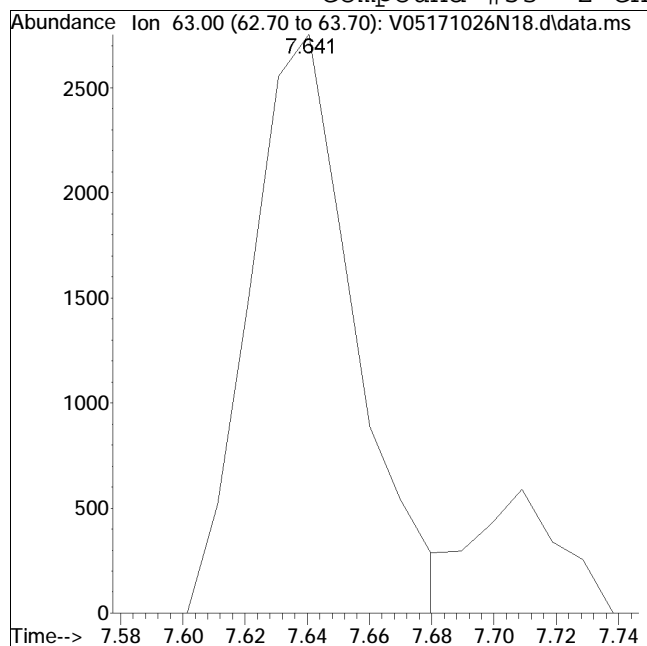
Manual Peak Response = 60147 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171026N18.d Operator : VOA105:PK
Date Inj'd : 10/26/2017 7:19 pm Instrument : VOA 105
Sample : CSTDL3 Quant Date : 10/26/2017 8:55 pm

Compound #53: 2-Chloroethyl vinyl ether



Original Peak Response = 6381

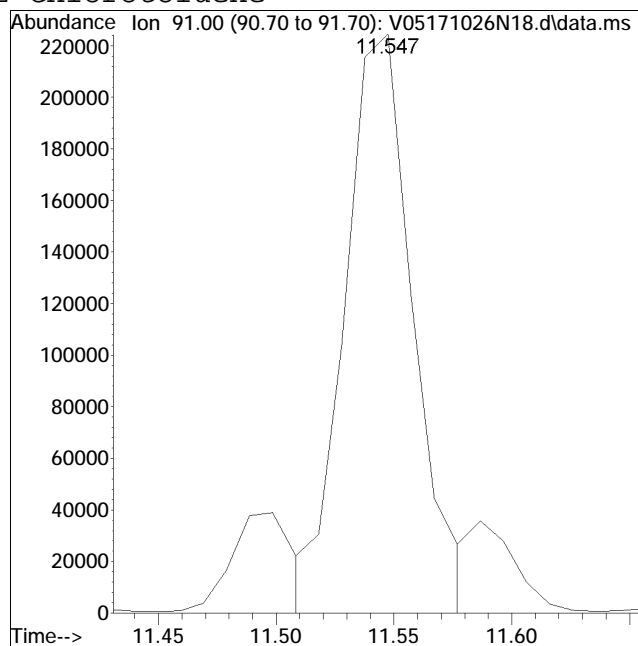
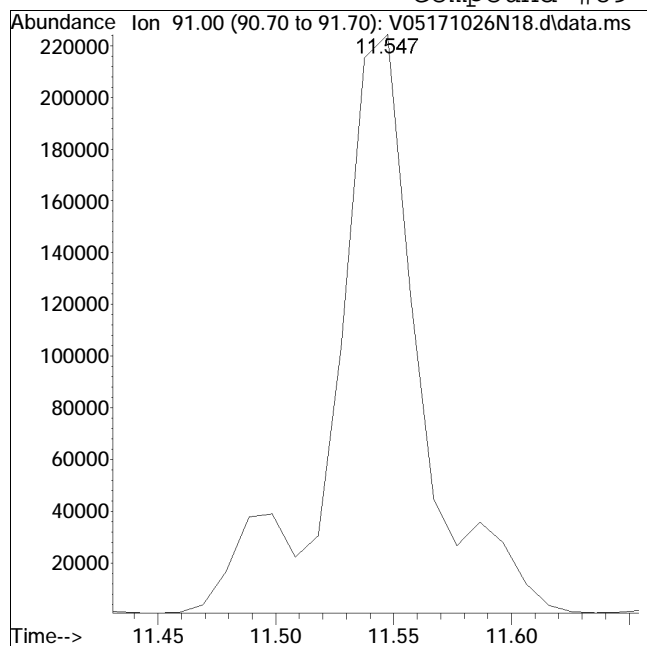
Manual Peak Response = 7498 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171026N18.d Operator : VOA105:PK
Date Inj'd : 10/26/2017 7:19 pm Instrument : VOA 105
Sample : CSTDL3 Quant Date : 10/26/2017 8:55 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 563673

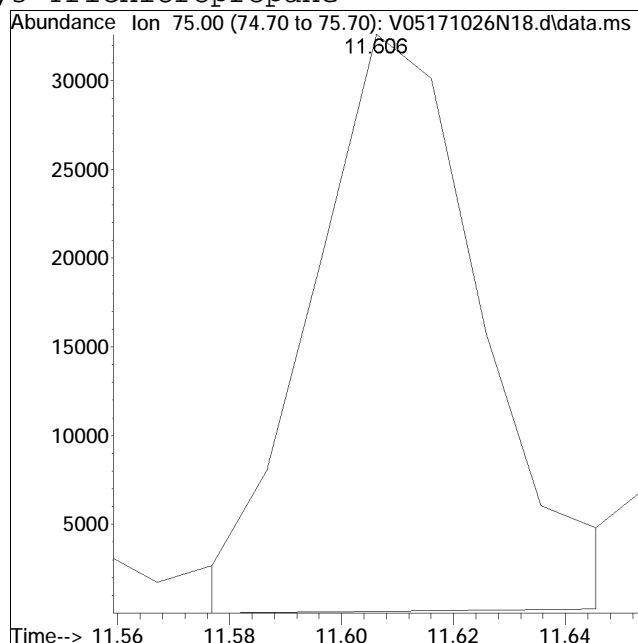
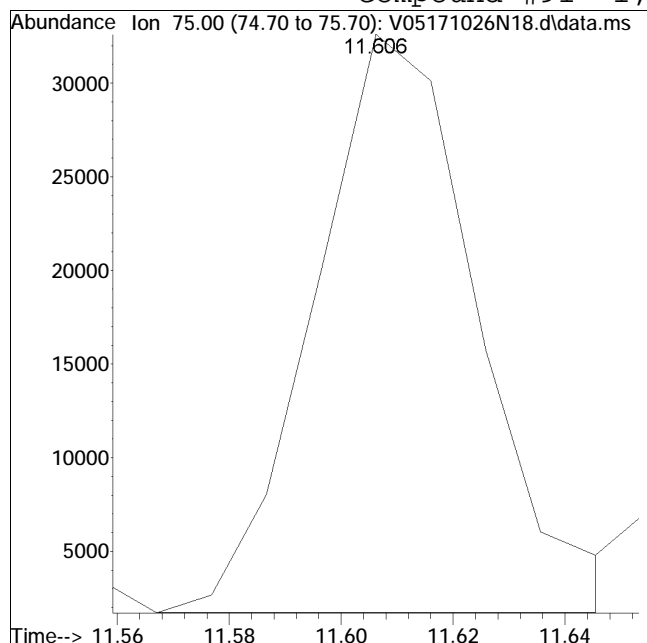
Manual Peak Response = 452028 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171026N18.d Operator : VOA105:PK
Date Inj'd : 10/26/2017 7:19 pm Instrument : VOA 105
Sample : CSTDL3 Quant Date : 10/26/2017 8:55 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 62420

Manual Peak Response = 68503 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Continuing Calibration

Continuing Calibration Form 7

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Instrument ID : VOA105
 Lab File ID : V05171108P01
 Sample No : WG1061312-2
 Channel :

Lab Number : L1740446
 Project Number : 06.6448
 Calibration Date : 11/08/17 20:53
 Init. Calib. Date(s) : 10/26/17 10/26/17
 Init. Calib. Times : 13:02 16:49

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	190	0
Dichlorodifluoromethane	0.157	0.13	-	17.2	20	149	0
Chloromethane	0.141	0.167	-	-18.4	20	227	0
Vinyl chloride	0.131	0.163	-	-24.4*	20	227	0
Bromomethane	0.07	0.049	-	30*	20	147	0
Chloroethane	0.077	0.088	-	-14.3	20	203	0
Trichlorofluoromethane	0.292	0.215	-	26.4*	20	128	0
Ethyl ether	0.049	0.052	-	-6.1	20	193	-.01
1,1-Dichloroethene	0.14	0.144	-	-2.9	20	192	0
Carbon disulfide	0.37	0.404	-	-9.2	20	207	0
Freon-113	0.157	0.149	-	5.1	20	174	0
Iodomethane	10	5.554	-	44.5*	20	136	0
Acrolein	0.011	0.014	-	-27.3*	20	260	0
Methylene chloride	0.16	0.162	-	-1.3	20	193	0
Acetone	0.025	0.022	-	12	20	186	-.01
trans-1,2-Dichloroethene	0.166	0.168	-	-1.2	20	190	0
Methyl acetate	0.05	0.057	-	-14	20	218	0
Methyl tert-butyl ether	0.267	0.28	-	-4.9	20	192	-.01
tert-Butyl alcohol	0.00432	0.00485	-	-12.3	20	224	-.01
Diisopropyl ether	0.41	0.52	-	-26.8*	20	238	0
1,1-Dichloroethane	0.3	0.331	-	-10.3	20	205	-.01
Halothane	0.134	0.122	-	9	20	169	-.01
Acrylonitrile	10	11.849	-	-18.5	20	243	0
Ethyl tert-butyl ether	10	10.756	-	-7.6	20	219	0
Vinyl acetate	10	10.268	-	-2.7	20	207	0
cis-1,2-Dichloroethene	0.18	0.184	-	-2.2	20	187	0
2,2-Dichloropropane	0.265	0.259	-	2.3	20	179	0
Bromochloromethane	0.082	0.069	-	15.9	20	152	0
Cyclohexane	10	12.284	-	-22.8*	20	246	0
Chloroform	0.33	0.303	-	8.2	20	167	0
Ethyl acetate	0.069	0.079	-	-14.5	20	211	0
Carbon tetrachloride	0.287	0.222	-	22.6*	20	140	0
Tetrahydrofuran	10	10.484	-	-4.8	20	204	0
Dibromofluoromethane	0.285	0.234	-	17.9	20	152	-.01
1,1,1-Trichloroethane	0.319	0.27	-	15.4	20	155	0
2-Butanone	0.029	0.031	-	-6.9	20	186	0
1,1-Dichloropropene	0.243	0.25	-	-2.9	20	186	0
Benzene	0.639	0.692	-	-8.3	20	197	0
tert-Amyl methyl ether	10	9.522	-	4.8	20	196	0
1,2-Dichloroethane-d4	0.313	0.269	-	14.1	20	155	0
1,2-Dichloroethane	0.218	0.191	-	12.4	20	160	0
Methyl cyclohexane	0.231	0.251	-	-8.7	20	206	0
Trichloroethene	0.2	0.182	-	9	20	170	0
Dibromomethane	0.085	0.074	-	12.9	20	158	-.01
1,2-Dichloropropane	0.146	0.177	-	-21.2*	20	225	0

* Value outside of QC limits.



Continuing Calibration Form 7

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Instrument ID : VOA105
 Lab File ID : V05171108P01
 Sample No : WG1061312-2
 Channel :

Lab Number : L1740446
 Project Number : 06.6448
 Calibration Date : 11/08/17 20:53
 Init. Calib. Date(s) : 10/26/17 10/26/17
 Init. Calib. Times : 13:02 16:49

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2-Chloroethyl vinyl ether	0.012	0.014	-	-16.7	20	205	0
Bromodichloromethane	0.232	0.203	-	12.5	20	161	0
1,4-Dioxane	0.00059	0.00058	-	1.7	20	195	0
cis-1,3-Dichloropropene	10	8.934	-	10.7	20	187	0
Chlorobenzene-d5	1	1	-	0	20	166	0
Toluene-d8	1.282	1.329	-	-3.7	20	170	0
Toluene	0.57	0.637	-	-11.8	20	180	0
4-Methyl-2-pentanone	10	11.834	-	-18.3	20	230	0
Tetrachloroethene	0.315	0.269	-	14.6	20	134	0
trans-1,3-Dichloropropene	10	9.333	-	6.7	20	171	-0.01
Ethyl methacrylate	10	9.985	-	0.2	20	205	-0.01
1,1,2-Trichloroethane	0.125	0.141	-	-12.8	20	178	0
Chlorodibromomethane	0.182	0.157	-	13.7	20	143	0
1,3-Dichloropropane	0.235	0.268	-	-14	20	181	0
1,2-Dibromoethane	0.129	0.131	-	-1.6	20	161	0
2-Hexanone	10	9.699	-	3	20	236	0
Chlorobenzene	0.652	0.666	-	-2.1	20	165	0
Ethylbenzene	1.092	1.219	-	-11.6	20	177	0
1,1,1,2-Tetrachloroethane	0.23	0.206	-	10.4	20	144	0
p/m Xylene	0.413	0.458	-	-10.9	20	167	0
o Xylene	20	21.096	-	-5.5	20	167	0
Styrene	20	20.849	-	-4.2	20	162	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	131	0
Bromoform	0.181	0.154	-	14.9	20	117	-0.01
Isopropylbenzene	10	11.682	-	-16.8	20	164	0
4-Bromofluorobenzene	0.84	1.022	-	-21.7*	20	164	0
Bromobenzene	0.5	0.499	-	0.2	20	130	0
n-Propylbenzene	2.124	2.876	-	-35.4*	20	172	0
1,4-Dichlorobutane	0.358	0.532	-	-48.6*	20	195	0
1,1,1,2,2-Tetrachloroethane	0.226	0.289	-	-27.9*	20	168	0
4-Ethyltoluene	1.744	2.228	-	-27.8*	20	161	-0.01
2-Chlorotoluene	1.323	1.717	-	-29.8*	20	167	-0.01
1,3,5-Trimethylbenzene	1.474	1.844	-	-25.1*	20	157	0
1,2,3-Trichloropropane	0.208	0.246	-	-18.3	20	155	0
trans-1,4-Dichloro-2-buten	10	8.905	-	11	20	153	-0.01
4-Chlorotoluene	1.332	1.75	-	-31.4*	20	165	0
tert-Butylbenzene	10	11.024	-	-10.2	20	156	0
1,2,4-Trimethylbenzene	10	11.314	-	-13.1	20	154	0
sec-Butylbenzene	10	11.706	-	-17.1	20	164	0
p-Isopropyltoluene	10	11.045	-	-10.4	20	156	0
1,3-Dichlorobenzene	0.908	0.962	-	-5.9	20	136	0
1,4-Dichlorobenzene	0.952	0.968	-	-1.7	20	132	-0.01
p-Diethylbenzene	10	10.887	-	-8.9	20	159	0
n-Butylbenzene	10	12.478	-	-24.8*	20	176	0
1,2-Dichlorobenzene	0.748	0.787	-	-5.2	20	135	-0.01

* Value outside of QC limits.



Continuing Calibration Form 7

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Instrument ID : VOA105
Lab File ID : V05171108P01
Sample No : WG1061312-2
Channel :

Lab Number : L1740446
Project Number : 06.6448
Calibration Date : 11/08/17 20:53
Init. Calib. Date(s) : 10/26/17 10/26/17
Init. Calib. Times : 13:02 16:49

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2,4,5-Tetramethylbenzene	10	10.468	-	-4.7	20	163	0
1,2-Dibromo-3-chloropropan	10	8.011	-	19.9	20	126	0
1,3,5-Trichlorobenzene	0.496	0.5	-	-0.8	20	130	0
Hexachlorobutadiene	0.183	0.202	-	-10.4	20	148	-.01
1,2,4-Trichlorobenzene	0.318	0.322	-	-1.3	20	137	0
Naphthalene	10	9.619	-	3.8	20	174	0
1,2,3-Trichlorobenzene	0.184	0.189	-	-2.7	20	135	0

* Value outside of QC limits.



Continuing Calibration Form 7

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Instrument ID : VOA105
 Lab File ID : V05171109A02
 Sample No : WG1061312-9
 Channel :

Lab Number : L1740446
 Project Number : 06.6448
 Calibration Date : 11/09/17 08:09
 Init. Calib. Date(s) : 10/26/17 10/26/17
 Init. Calib. Times : 13:02 16:49

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	161	0
Dichlorodifluoromethane	0.157	0.179	-	-14	20	173	0
Chloromethane	0.141	0.204	-	-44.7*	20	234	0
Vinyl chloride	0.131	0.193	-	-47.3*	20	227	0
Bromomethane	0.07	0.059	-	15.7	20	150	0
Chloroethane	0.077	0.095	-	-23.4*	20	184	0
Trichlorofluoromethane	0.292	0.261	-	10.6	20	131	0
Ethyl ether	0.049	0.056	-	-14.3	20	176	0
1,1-Dichloroethene	0.14	0.151	-	-7.9	20	171	0
Carbon disulfide	0.37	0.438	-	-18.4	20	188	0
Freon-113	0.157	0.162	-	-3.2	20	160	0
Iodomethane	10	5.192	-	48.1*	20	106	0
Acrolein	0.011	0.014	-	-27.3*	20	225	0
Methylene chloride	0.16	0.172	-	-7.5	20	172	0
Acetone	0.025	0.025	-	0	20	172	0
trans-1,2-Dichloroethene	0.166	0.172	-	-3.6	20	164	0
Methyl acetate	0.05	0.059	-	-18	20	191	0
Methyl tert-butyl ether	0.267	0.28	-	-4.9	20	162	0
tert-Butyl alcohol	0.00432	0.00518	-	-19.9	20	202	0
Diisopropyl ether	0.41	0.512	-	-24.9*	20	197	0
1,1-Dichloroethane	0.3	0.34	-	-13.3	20	177	0
Halothane	0.134	0.126	-	6	20	146	0
Acrylonitrile	10	12.112	-	-21.1*	20	210	0
Ethyl tert-butyl ether	10	10.618	-	-6.2	20	182	0
Vinyl acetate	10	10.307	-	-3.1	20	175	0
cis-1,2-Dichloroethene	0.18	0.187	-	-3.9	20	160	0
2,2-Dichloropropane	0.265	0.259	-	2.3	20	150	0
Bromochloromethane	0.082	0.073	-	11	20	135	0
Cyclohexane	10	12.611	-	-26.1*	20	213	0
Chloroform	0.33	0.311	-	5.8	20	145	0
Ethyl acetate	0.069	0.081	-	-17.4	20	183	0
Carbon tetrachloride	0.287	0.237	-	17.4	20	126	0
Tetrahydrofuran	10	10.918	-	-9.2	20	179	0
Dibromofluoromethane	0.285	0.246	-	13.7	20	135	0
1,1,1-Trichloroethane	0.319	0.282	-	11.6	20	137	0
2-Butanone	0.029	0.034	-	-17.2	20	171	0
1,1-Dichloropropene	0.243	0.252	-	-3.7	20	158	0
Benzene	0.639	0.694	-	-8.6	20	167	0
tert-Amyl methyl ether	10	9.376	-	6.2	20	163	0
1,2-Dichloroethane-d4	0.313	0.287	-	8.3	20	139	0
1,2-Dichloroethane	0.218	0.203	-	6.9	20	143	0
Methyl cyclohexane	0.231	0.253	-	-9.5	20	175	0
Trichloroethene	0.2	0.187	-	6.5	20	147	0
Dibromomethane	0.085	0.077	-	9.4	20	139	0
1,2-Dichloropropane	0.146	0.173	-	-18.5	20	187	0

* Value outside of QC limits.



Continuing Calibration Form 7

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Instrument ID : VOA105
 Lab File ID : V05171109A02
 Sample No : WG1061312-9
 Channel :

Lab Number : L1740446
 Project Number : 06.6448
 Calibration Date : 11/09/17 08:09
 Init. Calib. Date(s) : 10/26/17 10/26/17
 Init. Calib. Times : 13:02 16:49

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2-Chloroethyl vinyl ether	0.01246	0.00479	-	61.6*	20	59	0
Bromodichloromethane	0.232	0.212	-	8.6	20	141	0
1,4-Dioxane	0.00059	0.00063	-	-6.8	20	180	0
cis-1,3-Dichloropropene	10	8.662	-	13.4	20	152	0
Chlorobenzene-d5	1	1	-	0	20	144	0
Toluene-d8	1.282	1.304	-	-1.7	20	145	0
Toluene	0.57	0.627	-	-10	20	153	0
4-Methyl-2-pentanone	10	11.711	-	-17.1	20	197	0
Tetrachloroethene	0.315	0.271	-	14	20	117	0
trans-1,3-Dichloropropene	10	8.975	-	10.3	20	142	0
Ethyl methacrylate	10	9.652	-	3.5	20	171	0
1,1,2-Trichloroethane	0.125	0.142	-	-13.6	20	155	0
Chlorodibromomethane	0.182	0.163	-	10.4	20	128	0
1,3-Dichloropropane	0.235	0.266	-	-13.2	20	155	0
1,2-Dibromoethane	0.129	0.132	-	-2.3	20	141	0
2-Hexanone	10	9.614	-	3.9	20	202	0
Chlorobenzene	0.652	0.668	-	-2.5	20	143	0
Ethylbenzene	1.092	1.214	-	-11.2	20	153	0
1,1,1,2-Tetrachloroethane	0.23	0.208	-	9.6	20	126	0
p/m Xylene	0.413	0.455	-	-10.2	20	143	0
o Xylene	20	20.922	-	-4.6	20	143	0
Styrene	20	20.952	-	-4.8	20	141	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	118	0
Bromoform	0.181	0.159	-	12.2	20	109	0
Isopropylbenzene	10	11.199	-	-12	20	142	0
4-Bromofluorobenzene	0.84	0.99	-	-17.9	20	143	0
Bromobenzene	0.5	0.495	-	1	20	117	0
n-Propylbenzene	2.124	2.762	-	-30*	20	149	0
1,4-Dichlorobutane	0.358	0.517	-	-44.4*	20	172	0
1,1,1,2,2-Tetrachloroethane	0.226	0.291	-	-28.8*	20	153	0
4-Ethyltoluene	1.744	2.145	-	-23*	20	140	0
2-Chlorotoluene	1.323	1.676	-	-26.7*	20	147	0
1,3,5-Trimethylbenzene	1.474	1.785	-	-21.1*	20	137	0
1,2,3-Trichloropropane	0.208	0.257	-	-23.6*	20	146	0
trans-1,4-Dichloro-2-buten	10	7.524	-	24.8*	20	115	0
4-Chlorotoluene	1.332	1.718	-	-29*	20	146	0
tert-Butylbenzene	10	10.682	-	-6.8	20	136	0
1,2,4-Trimethylbenzene	10	11.089	-	-10.9	20	136	0
sec-Butylbenzene	10	11.193	-	-11.9	20	141	0
p-Isopropyltoluene	10	10.682	-	-6.8	20	136	0
1,3-Dichlorobenzene	0.908	0.969	-	-6.7	20	124	0
1,4-Dichlorobenzene	0.952	0.988	-	-3.8	20	121	0
p-Diethylbenzene	10	10.468	-	-4.7	20	138	0
n-Butylbenzene	10	11.881	-	-18.8	20	151	0
1,2-Dichlorobenzene	0.748	0.798	-	-6.7	20	124	0

* Value outside of QC limits.



Continuing Calibration Form 7

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Instrument ID : VOA105
Lab File ID : V05171109A02
Sample No : WG1061312-9
Channel :

Lab Number : L1740446
Project Number : 06.6448
Calibration Date : 11/09/17 08:09
Init. Calib. Date(s) : 10/26/17 10/26/17
Init. Calib. Times : 13:02 16:49

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2,4,5-Tetramethylbenzene	10	9.999	-	0	20	140	0
1,2-Dibromo-3-chloropropan	10	8.169	-	18.3	20	116	0
1,3,5-Trichlorobenzene	0.496	0.499	-	-0.6	20	117	0
Hexachlorobutadiene	0.183	0.198	-	-8.2	20	131	0
1,2,4-Trichlorobenzene	0.318	0.319	-	-0.3	20	123	0
Naphthalene	10	9.206	-	7.9	20	150	0
1,2,3-Trichlorobenzene	0.184	0.199	-	-8.2	20	128	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P01.d
 Acq On : 8 Nov 2017 8:53 pm
 Operator : VOA105:AD
 Sample : WG1061312-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 09 07:13:14 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene	1.000	1.000	0.0	190	0.00
2 T Dichlorodifluoromethane	0.157	0.130	17.2	149	0.00
3 T Chloromethane	0.141	0.167	-18.4	227#	0.00
4 T Vinyl chloride	0.131	0.163	-24.4#	227#	0.00
5 T Bromomethane	0.070	0.049	30.0#	147	0.00
6 T Chloroethane	0.077	0.088	-14.3	203#	0.00
7 T Trichlorofluoromethane	0.292	0.215	26.4#	128	0.00
8 T Ethyl ether	0.049	0.052	-6.1	193	-0.01
10 T 1,1-Dichloroethene	0.140	0.144	-2.9	192	0.00
11 T Carbon disulfide	0.370	0.404	-9.2	207#	0.00
12 T Freon-113	0.157	0.149	5.1	174	0.00
13 T Iodomethane	* 10.000	5.554	44.5#	136	0.00
14 T Acrolein	0.011	0.014	-27.3#	260#	0.00
15 T Methylene chloride	0.160	0.162	-1.3	193	0.00
17 T Acetone	0.025	0.022	12.0	186	-0.01
18 T trans-1,2-Dichloroethene	0.166	0.168	-1.2	190	0.00
19 T Methyl acetate	0.050	0.057	-14.0	218#	0.00
20 T Methyl tert-butyl ether	0.267	0.280	-4.9	192	-0.01
21 T tert-Butyl alcohol	0.00432	0.00485	-12.3	224#	-0.01
22 T Diisopropyl ether	0.410	0.520	-26.8#	238#	0.00
23 T 1,1-Dichloroethane	0.300	0.331	-10.3	205#	-0.01
24 T Halothane	0.134	0.122	9.0	169	-0.01
25 T Acrylonitrile	* 10.000	11.849	-18.5	243#	0.00
26 T Ethyl tert-butyl ether	* 10.000	10.756	-7.6	219#	0.00
27 T Vinyl acetate	* 10.000	10.268	-2.7	207#	0.00
28 T cis-1,2-Dichloroethene	0.180	0.184	-2.2	187	0.00
29 T 2,2-Dichloropropane	0.265	0.259	2.3	179	0.00
30 T Bromochloromethane	0.082	0.069	15.9	152	0.00
31 T Cyclohexane	* 10.000	12.284	-22.8#	246#	0.00
32 T Chloroform	0.330	0.303	8.2	167	0.00
33 T Ethyl acetate	0.069	0.079	-14.5	211#	0.00
34 T Carbon tetrachloride	0.287	0.222	22.6#	140	0.00
35 T Tetrahydrofuran	* 10.000	10.484	-4.8	204#	0.00
36 S Dibromofluoromethane	0.285	0.234	17.9	152	-0.01
37 T 1,1,1-Trichloroethane	0.319	0.270	15.4	155	0.00
39 T 2-Butanone	0.029	0.031	-6.9	186	0.00
40 T 1,1-Dichloropropene	0.243	0.250	-2.9	186	0.00
41 T Benzene	0.639	0.692	-8.3	197	0.00
42 T tert-Amyl methyl ether	* 10.000	9.522	4.8	196	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P01.d
 Acq On : 8 Nov 2017 8:53 pm
 Operator : VOA105:AD
 Sample : WG1061312-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 09 07:13:14 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43 S	1,2-Dichloroethane-d4	0.313	0.269	14.1	155	0.00
44 T	1,2-Dichloroethane	0.218	0.191	12.4	160	0.00
47 T	Methyl cyclohexane	0.231	0.251	-8.7	206#	0.00
48 T	Trichloroethene	0.200	0.182	9.0	170	0.00
50 T	Dibromomethane	0.085	0.074	12.9	158	-0.01
51 T	1,2-Dichloropropane	0.146	0.177	-21.2#	225#	0.00
53 T	2-Chloroethyl vinyl ether	0.012	0.014	-16.7	205#	0.00
54 T	Bromodichloromethane	0.232	0.203	12.5	161	0.00
57 T	1,4-Dioxane	0.00059	0.00058	1.7	195	0.00
58 T	cis-1,3-Dichloropropene	* 10.000	8.934	10.7	187	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	166	0.00
60 S	Toluene-d8	1.282	1.329	-3.7	170	0.00
61 T	Toluene	0.570	0.637	-11.8	180	0.00
62 T	4-Methyl-2-pentanone	* 10.000	11.834	-18.3	230#	0.00
63 T	Tetrachloroethene	0.315	0.269	14.6	134	0.00
65 T	trans-1,3-Dichloropropene	* 10.000	9.333	6.7	171	-0.01
67 T	Ethyl methacrylate	* 10.000	9.985	0.2	205#	-0.01
68 T	1,1,2-Trichloroethane	0.125	0.141	-12.8	178	0.00
69 T	Chlorodibromomethane	0.182	0.157	13.7	143	0.00
70 T	1,3-Dichloropropane	0.235	0.268	-14.0	181	0.00
71 T	1,2-Dibromoethane	0.129	0.131	-1.6	161	0.00
72 T	2-Hexanone	* 10.000	9.699	3.0	236#	0.00
73 T	Chlorobenzene	0.652	0.666	-2.1	165	0.00
74 T	Ethylbenzene	1.092	1.219	-11.6	177	0.00
75 T	1,1,1,2-Tetrachloroethane	0.230	0.206	10.4	144	0.00
76 T	p/m Xylene	0.413	0.458	-10.9	167	0.00
77 T	o Xylene	* 20.000	21.096	-5.5	167	0.00
78 T	Styrene	* 20.000	20.849	-4.2	162	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	131	0.00
80 T	Bromoform	0.181	0.154	14.9	117	-0.01
82 T	Isopropylbenzene	* 10.000	11.682	-16.8	164	0.00
83 S	4-Bromofluorobenzene	0.840	1.022	-21.7#	164	0.00
84 T	Bromobenzene	0.500	0.499	0.2	130	0.00
85 T	n-Propylbenzene	2.124	2.876	-35.4#	172	0.00
86 T	1,4-Dichlorobutane	0.358	0.532	-48.6#	195	0.00
87 T	1,1,2,2-Tetrachloroethane	0.226	0.289	-27.9#	168	0.00
88 T	4-Ethyltoluene	1.744	2.228	-27.8#	161	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P01.d
 Acq On : 8 Nov 2017 8:53 pm
 Operator : VOA105:AD
 Sample : WG1061312-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 09 07:13:14 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
89 T	2-Chlorotoluene	1.323	1.717	-29.8#	167	-0.01
90 T	1,3,5-Trimethylbenzene	1.474	1.844	-25.1#	157	0.00
91 T	1,2,3-Trichloropropane	0.208	0.246	-18.3	155	0.00
92 T	trans-1,4-Dichloro-2-butene *	10.000	8.905	11.0	153	-0.01
93 T	4-Chlorotoluene	1.332	1.750	-31.4#	165	0.00
94 T	tert-Butylbenzene	* 10.000	11.024	-10.2	156	0.00
97 T	1,2,4-Trimethylbenzene	* 10.000	11.314	-13.1	154	0.00
98 T	sec-Butylbenzene	* 10.000	11.706	-17.1	164	0.00
99 T	p-Isopropyltoluene	* 10.000	11.045	-10.4	156	0.00
100 T	1,3-Dichlorobenzene	0.908	0.962	-5.9	136	0.00
101 T	1,4-Dichlorobenzene	0.952	0.968	-1.7	132	-0.01
102 T	p-Diethylbenzene	* 10.000	10.887	-8.9	159	0.00
103 T	n-Butylbenzene	* 10.000	12.478	-24.8#	176	0.00
104 T	1,2-Dichlorobenzene	0.748	0.787	-5.2	135	-0.01
105 T	1,2,4,5-Tetramethylbenzene *	10.000	10.468	-4.7	163	0.00
106 T	1,2-Dibromo-3-chloropropane *	10.000	8.011	19.9	126	0.00
107 T	1,3,5-Trichlorobenzene	0.496	0.500	-0.8	130	0.00
108 T	Hexachlorobutadiene	0.183	0.202	-10.4	148	-0.01
109 T	1,2,4-Trichlorobenzene	0.318	0.322	-1.3	137	0.00
110 T	Naphthalene	* 10.000	9.619	3.8	174	0.00
111 T	1,2,3-Trichlorobenzene	0.184	0.189	-2.7	135	0.00

* Evaluation of CC level amount vs concentration.

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P01.d
 Acq On : 8 Nov 2017 8:53 pm
 Operator : VOA105:AD
 Sample : WG1061312-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312, ICAL14135 (Sig #1); WG, ICAL14135 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 09 07:13:14 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.212	96	1085488	10.000	ug/L	0.00	
59) Chlorobenzene-d5	9.764	117	758413	10.000	ug/L	0.00	
79) 1,4-Dichlorobenzene-d4	12.419	152	355962	10.000	ug/L	0.00	
System Monitoring Compounds							
36) Dibromofluoromethane	5.401	113	253708	8.209	ug/L	-0.01	
Spiked Amount	10.000		Range 70 - 130	Recovery =	82.09%		
43) 1,2-Dichloroethane-d4	5.938	65	292431	8.596	ug/L	0.00	
Spiked Amount	10.000		Range 70 - 130	Recovery =	85.96%		
60) Toluene-d8	7.904	98	1007818	10.366	ug/L	0.00	
Spiked Amount	10.000		Range 70 - 130	Recovery =	103.66%		
83) 4-Bromofluorobenzene	11.224	95	363910	12.173	ug/L	0.00	
Spiked Amount	10.000		Range 70 - 130	Recovery =	121.73%		
Target Compounds							
2) Dichlorodifluoromethane	1.742	85	141598	8.289	ug/L		98
3) Chloromethane	1.938	50	181005	11.789	ug/L		97
4) Vinyl chloride	2.026	62	176398	12.398	ug/L		78
5) Bromomethane	2.349	94	53078	6.988	ug/L		99
6) Chloroethane	2.476	64	95376	11.485	ug/L		97
7) Trichlorofluoromethane	2.613	101	233329	7.352	ug/L		99
8) Ethyl ether	2.916	74	56595	10.594	ug/L		94
10) 1,1-Dichloroethene	3.122	96	156391	10.282	ug/L		94
11) Carbon disulfide	3.151	76	439047	10.941	ug/L		99
12) Freon-113	3.151	101	162110	9.505	ug/L		98
13) Iodomethane	3.268	142	95913	5.554	ug/L		89
14) Acrolein	3.464	56	14804	12.216	ug/L		98
15) Methylene chloride	3.689	84	176300	10.148	ug/L		99
17) Acetone	3.738	43	24327	9.054	ug/L		91
18) trans-1,2-Dichloroethene	3.845	96	182178	10.120	ug/L		100
19) Methyl acetate	3.855	43	61733	11.312	ug/L		97
20) Methyl tert-butyl ether	3.933	73	304156	10.486	ug/L		95
21) tert-Butyl alcohol	4.031	59	26349	56.219	ug/L		86
22) Diisopropyl ether	4.295	45	564517	12.692	ug/L		94
23) 1,1-Dichloroethane	4.432	63	359381	11.022	ug/L		98
24) Halothane	4.481	117	132885	9.143	ug/L		99
25) Acrylonitrile	4.501	53	32677	11.849	ug/L		95
26) Ethyl tert-butyl ether	4.647	59	398886	10.756	ug/L		94
27) Vinyl acetate	4.667	43	314308	10.268	ug/L		99
28) cis-1,2-Dichloroethene	4.960	96	200093	10.240	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P01.d
 Acq On : 8 Nov 2017 8:53 pm
 Operator : VOA105:AD
 Sample : WG1061312-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 09 07:13:14 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2,2-Dichloropropane	5.058	77	281521	9.777	ug/L	91
30) Bromochloromethane	5.156	128	75343	8.473	ug/L	99
31) Cyclohexane	5.146	56	348382	12.284	ug/L	95
32) Chloroform	5.224	83	329380	9.197	ug/L	97
33) Ethyl acetate	5.332	43	85423	11.342	ug/L	100
34) Carbon tetrachloride	5.352	117	240460	7.722	ug/L	99
35) Tetrahydrofuran	5.381	42	29243	10.484	ug/L	98
37) 1,1,1-Trichloroethane	5.420	97	292726	8.461	ug/L	99
39) 2-Butanone	5.528	43	33677	10.591	ug/L	100
40) 1,1-Dichloropropene	5.547	75	271772	10.295	ug/L	99
41) Benzene	5.792	78	751326	10.828	ug/L	99
42) tert-Amyl methyl ether	5.890	73	301181	9.522	ug/L	95
44) 1,2-Dichloroethane	6.007	62	207627	8.785	ug/L	99
47) Methyl cyclohexane	6.369	83	272368	10.879	ug/L	98
48) Trichloroethene	6.388	95	197573	9.086	ug/L	97
50) Dibromomethane	6.838	93	79873	8.706	ug/L	95
51) 1,2-Dichloropropane	6.946	63	191605	12.066	ug/L	93
53) 2-Chloroethyl vinyl ether	7.631	63	15307	11.317	ug/L	98
54) Bromodichloromethane	7.014	83	220823	8.776	ug/L	100
57) 1,4-Dioxane	7.230	88	31301	485.328	ug/L	97
58) cis-1,3-Dichloropropene	7.699	75	246587	8.934	ug/L	93
61) Toluene	7.963	92	483055	11.184	ug/L	97
62) 4-Methyl-2-pentanone	8.403	58	25519	11.834	ug/L	90
63) Tetrachloroethene	8.413	166	203814	8.537	ug/L	93
65) trans-1,3-Dichloropropene	8.452	75	191929	9.333	ug/L	93
67) Ethyl methacrylate	8.628	69	130230	9.985	ug/L	96
68) 1,1,2-Trichloroethane	8.648	83	107193	11.267	ug/L	98
69) Chlorodibromomethane	8.853	129	119181	8.644	ug/L	97
70) 1,3-Dichloropropane	8.971	76	203245	11.419	ug/L	100
71) 1,2-Dibromoethane	9.137	107	99063	10.155	ug/L	100
72) 2-Hexanone	9.422	43	41719	9.699	ug/L	91
73) Chlorobenzene	9.784	112	505102	10.207	ug/L	96
74) Ethylbenzene	9.813	91	924656	11.163	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.862	131	156016	8.944	ug/L	98
76) p/m Xylene	9.999	106	694077	22.152	ug/L	98
77) o Xylene	10.528	106	637936	21.096	ug/L	97
78) Styrene	10.597	104	1016087	20.849	ug/L	95
80) Bromoform	10.626	173	54973	8.543	ug/L	97
82) Isopropylbenzene	10.901	105	852815	11.682	ug/L	100
84) Bromobenzene	11.342	156	177727	9.981	ug/L	99
85) n-Propylbenzene	11.371	91	1023748	13.541	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P01.d
 Acq On : 8 Nov 2017 8:53 pm
 Operator : VOA105:AD
 Sample : WG1061312-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 09 07:13:14 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) 1,4-Dichlorobutane	11.400	55	189282	14.853	ug/L	95
87) 1,1,2,2-Tetrachloroethane	11.469	83	103005	12.784	ug/L	100
88) 4-Ethyltoluene	11.488	105	792990	12.771	ug/L	100
89) 2-Chlorotoluene	11.537	91	611052M1	12.976	ug/L	
90) 1,3,5-Trimethylbenzene	11.586	105	656360	12.508	ug/L	99
91) 1,2,3-Trichloropropane	11.606	75	87724M1	11.876	ug/L	
92) trans-1,4-Dichloro-2-b...	11.655	53	19339M1	8.905	ug/L	
93) 4-Chlorotoluene	11.724	91	622977	13.140	ug/L	99
94) tert-Butylbenzene	11.929	119	525105	11.024	ug/L	97
97) 1,2,4-Trimethylbenzene	12.008	105	647946	11.314	ug/L	98
98) sec-Butylbenzene	12.115	105	734536	11.706	ug/L	99
99) p-Isopropyltoluene	12.262	119	608893	11.045	ug/L	97
100) 1,3-Dichlorobenzene	12.341	146	342276	10.587	ug/L	99
101) 1,4-Dichlorobenzene	12.429	146	344702	10.169	ug/L	99
102) p-Diethylbenzene	12.635	119	342844	10.887	ug/L	97
103) n-Butylbenzene	12.693	91	566039	12.478	ug/L	99
104) 1,2-Dichlorobenzene	12.850	146	280258	10.526	ug/L	98
105) 1,2,4,5-Tetramethylben...	13.418	119	450970	10.468	ug/L	97
106) 1,2-Dibromo-3-chloropr...	13.634	155	8290	8.011	ug/L	94
107) 1,3,5-Trichlorobenzene	13.653	180	177870	10.075	ug/L	96
108) Hexachlorobutadiene	14.212	225	71774	11.040	ug/L	99
109) 1,2,4-Trichlorobenzene	14.251	180	114471	10.118	ug/L	98
110) Naphthalene	14.545	128	147842	9.619	ug/L	100
111) 1,2,3-Trichlorobenzene	14.711	180	67155	10.255	ug/L	99

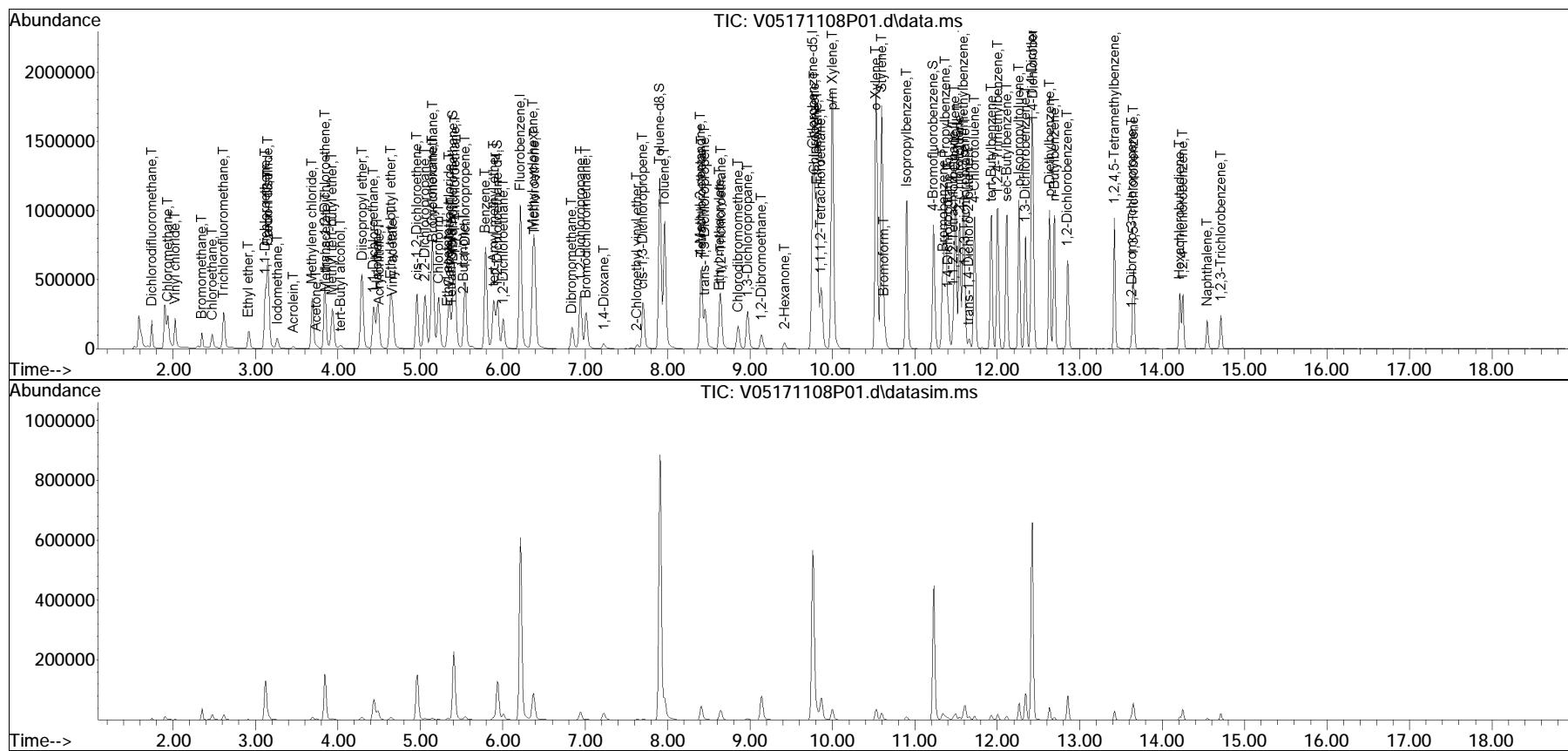
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P01.d
 Acq On : 8 Nov 2017 8:53 pm
 Operator : VOA105:AD
 Sample : WG1061312-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 09 07:13:14 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

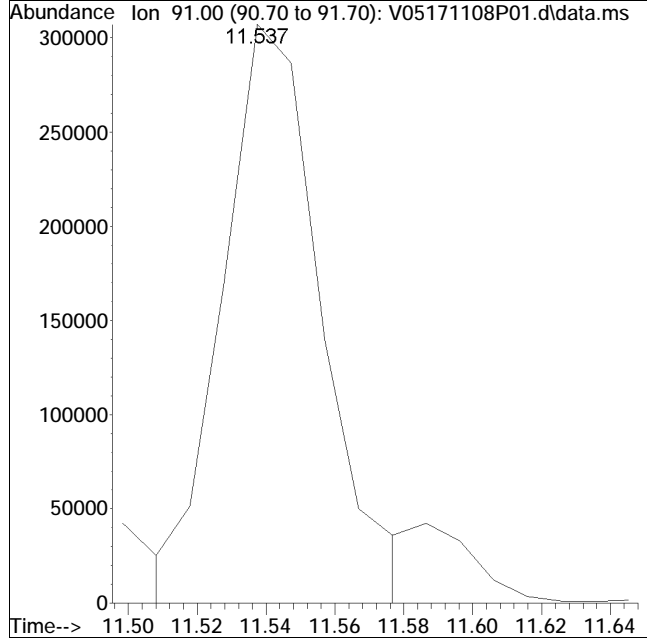
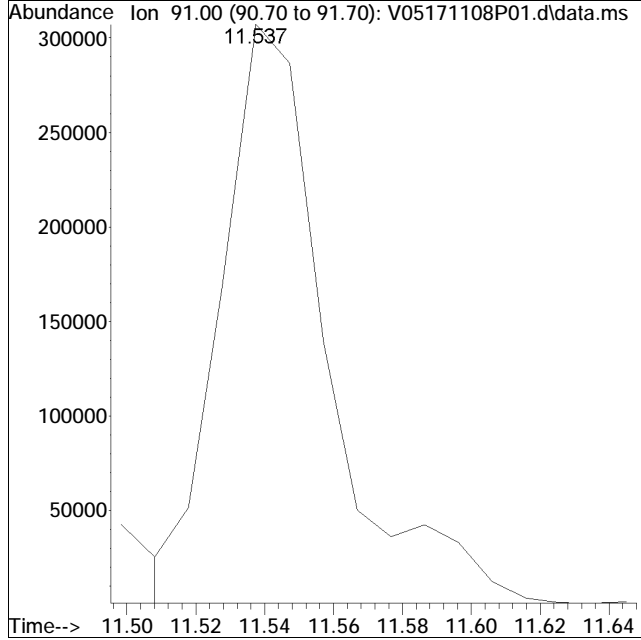
Sub List : 8260-Curve - Megamix plus Diox



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171108P01.d Operator : VOA105:AD
Date Inj'd : 11/8/2017 8:53 pm Instrument : VOA 105
Sample : WG1061312-2 Quant Date : 11/8/2017 9:27 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 659027

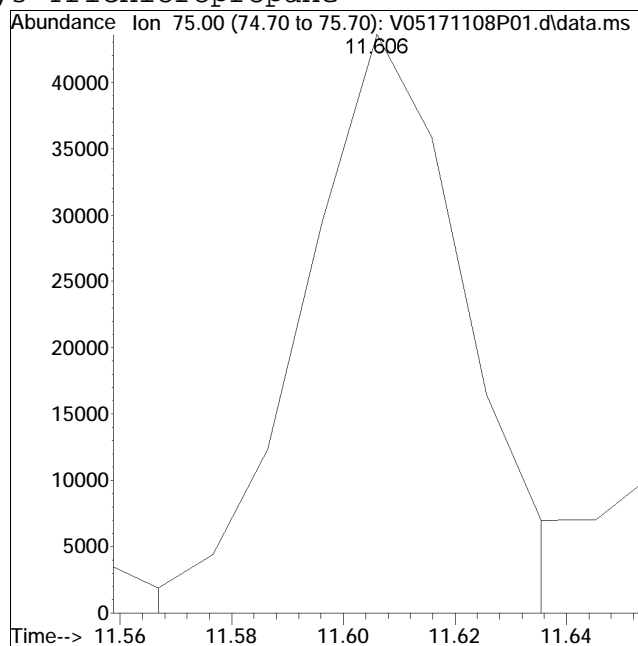
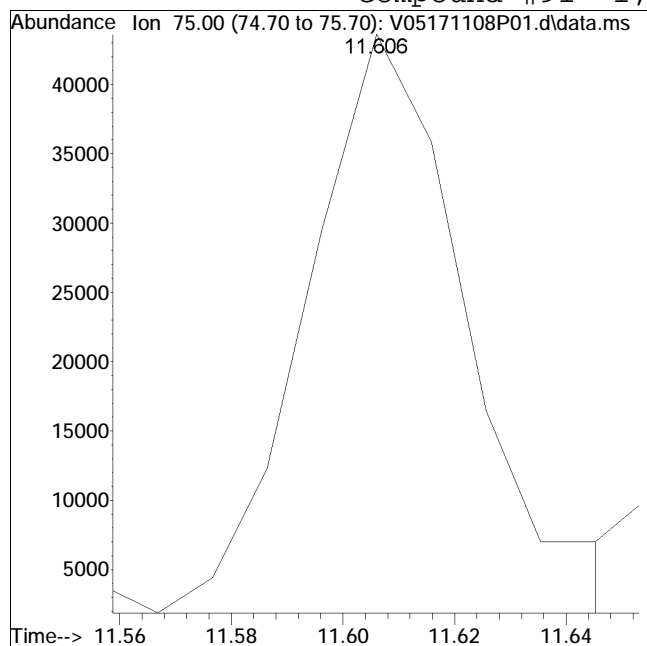
Manual Peak Response = 611052 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171108P01.d Operator : VOA105:AD
Date Inj'd : 11/8/2017 8:53 pm Instrument : VOA 105
Sample : WG1061312-2 Quant Date : 11/8/2017 9:27 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 82998

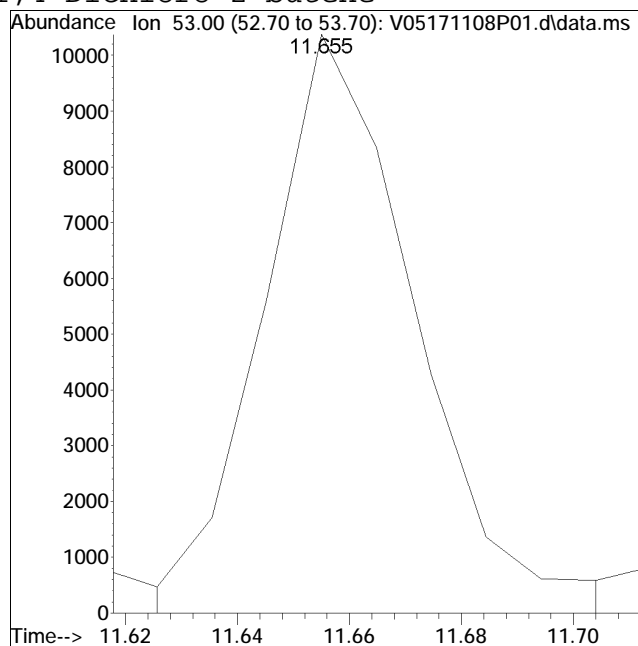
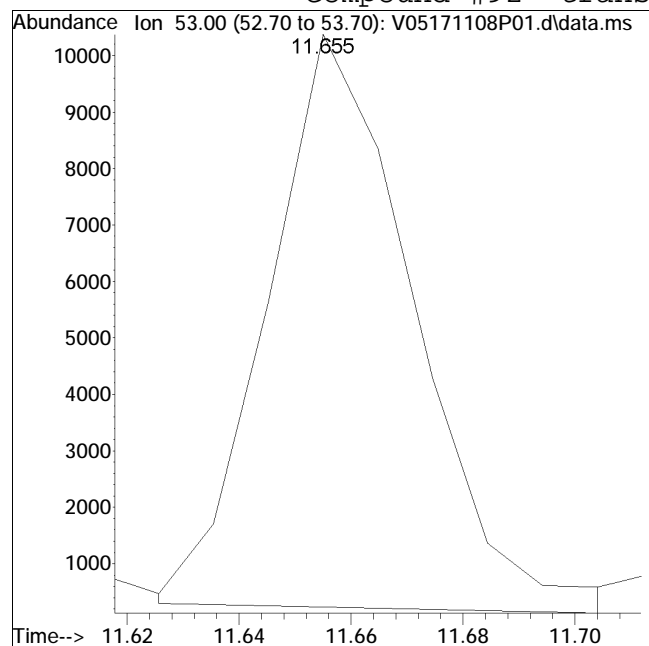
Manual Peak Response = 87724 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171108P01.d Operator : VOA105:AD
Date Inj'd : 11/8/2017 8:53 pm Instrument : VOA 105
Sample : WG1061312-2 Quant Date : 11/8/2017 9:27 pm

Compound #92: trans-1,4-Dichloro-2-butene



Original Peak Response = 18335

Manual Peak Response = 19339 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A02.d
 Acq On : 9 Nov 2017 8:09
 Operator : VOA105:PD
 Sample : WG1061312-9 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 09 08:35:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	161	0.00
2 T	Dichlorodifluoromethane	0.157	0.179	-14.0	173	0.00
3 T	Chloromethane	0.141	0.204	-44.7#	234#	0.00
4 T	Vinyl chloride	0.131	0.193	-47.3#	227#	0.00
5 T	Bromomethane	0.070	0.059	15.7	150	0.00
6 T	Chloroethane	0.077	0.095	-23.4#	184	0.00
7 T	Trichlorofluoromethane	0.292	0.261	10.6	131	0.00
8 T	Ethyl ether	0.049	0.056	-14.3	176	0.00
10 T	1,1-Dichloroethene	0.140	0.151	-7.9	171	0.00
11 T	Carbon disulfide	0.370	0.438	-18.4	188	0.00
12 T	Freon-113	0.157	0.162	-3.2	160	0.00
13 T	Iodomethane	* 10.000	5.192	48.1#	106	0.00
14 T	Acrolein	0.011	0.014	-27.3#	225#	0.00
15 T	Methylene chloride	0.160	0.172	-7.5	172	0.00
17 T	Acetone	0.025	0.025	0.0	172	0.00
18 T	trans-1,2-Dichloroethene	0.166	0.172	-3.6	164	0.00
19 T	Methyl acetate	0.050	0.059	-18.0	191	0.00
20 T	Methyl tert-butyl ether	0.267	0.280	-4.9	162	0.00
21 T	tert-Butyl alcohol	0.00432	0.00518	-19.9	202#	0.00
22 T	Diisopropyl ether	0.410	0.512	-24.9#	197	0.00
23 T	1,1-Dichloroethane	0.300	0.340	-13.3	177	0.00
24 T	Halothane	0.134	0.126	6.0	146	0.00
25 T	Acrylonitrile	* 10.000	12.112	-21.1#	210#	0.00
26 T	Ethyl tert-butyl ether	* 10.000	10.618	-6.2	182	0.00
27 T	Vinyl acetate	* 10.000	10.307	-3.1	175	0.00
28 T	cis-1,2-Dichloroethene	0.180	0.187	-3.9	160	0.00
29 T	2,2-Dichloropropane	0.265	0.259	2.3	150	0.00
30 T	Bromochloromethane	0.082	0.073	11.0	135	0.00
31 T	Cyclohexane	* 10.000	12.611	-26.1#	213#	0.00
32 T	Chloroform	0.330	0.311	5.8	145	0.00
33 T	Ethyl acetate	0.069	0.081	-17.4	183	0.00
34 T	Carbon tetrachloride	0.287	0.237	17.4	126	0.00
35 T	Tetrahydrofuran	* 10.000	10.918	-9.2	179	0.00
36 S	Dibromofluoromethane	0.285	0.246	13.7	135	0.00
37 T	1,1,1-Trichloroethane	0.319	0.282	11.6	137	0.00
39 T	2-Butanone	0.029	0.034	-17.2	171	0.00
40 T	1,1-Dichloropropene	0.243	0.252	-3.7	158	0.00
41 T	Benzene	0.639	0.694	-8.6	167	0.00
42 T	tert-Amyl methyl ether	* 10.000	9.376	6.2	163	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A02.d
 Acq On : 9 Nov 2017 8:09
 Operator : VOA105:PD
 Sample : WG1061312-9 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 09 08:35:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43 S	1,2-Dichloroethane-d4	0.313	0.287	8.3	139	0.00
44 T	1,2-Dichloroethane	0.218	0.203	6.9	143	0.00
47 T	Methyl cyclohexane	0.231	0.253	-9.5	175	0.00
48 T	Trichloroethene	0.200	0.187	6.5	147	0.00
50 T	Dibromomethane	0.085	0.077	9.4	139	0.00
51 T	1,2-Dichloropropane	0.146	0.173	-18.5	187	0.00
53 T	2-Chloroethyl vinyl ether	0.01246	0.00479	61.6#	59	0.00
54 T	Bromodichloromethane	0.232	0.212	8.6	141	0.00
57 T	1,4-Dioxane	0.00059	0.00063	-6.8	180	0.00
58 T	cis-1,3-Dichloropropene	* 10.000	8.662	13.4	152	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	144	0.00
60 S	Toluene-d8	1.282	1.304	-1.7	145	0.00
61 T	Toluene	0.570	0.627	-10.0	153	0.00
62 T	4-Methyl-2-pentanone	* 10.000	11.711	-17.1	197	0.00
63 T	Tetrachloroethene	0.315	0.271	14.0	117	0.00
65 T	trans-1,3-Dichloropropene	* 10.000	8.975	10.3	142	0.00
67 T	Ethyl methacrylate	* 10.000	9.652	3.5	171	0.00
68 T	1,1,2-Trichloroethane	0.125	0.142	-13.6	155	0.00
69 T	Chlorodibromomethane	0.182	0.163	10.4	128	0.00
70 T	1,3-Dichloropropane	0.235	0.266	-13.2	155	0.00
71 T	1,2-Dibromoethane	0.129	0.132	-2.3	141	0.00
72 T	2-Hexanone	* 10.000	9.614	3.9	202#	0.00
73 T	Chlorobenzene	0.652	0.668	-2.5	143	0.00
74 T	Ethylbenzene	1.092	1.214	-11.2	153	0.00
75 T	1,1,1,2-Tetrachloroethane	0.230	0.208	9.6	126	0.00
76 T	p/m Xylene	0.413	0.455	-10.2	143	0.00
77 T	o Xylene	* 20.000	20.922	-4.6	143	0.00
78 T	Styrene	* 20.000	20.952	-4.8	141	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	118	0.00
80 T	Bromoform	0.181	0.159	12.2	109	0.00
82 T	Isopropylbenzene	* 10.000	11.199	-12.0	142	0.00
83 S	4-Bromofluorobenzene	0.840	0.990	-17.9	143	0.00
84 T	Bromobenzene	0.500	0.495	1.0	117	0.00
85 T	n-Propylbenzene	2.124	2.762	-30.0#	149	0.00
86 T	1,4-Dichlorobutane	0.358	0.517	-44.4#	172	0.00
87 T	1,1,2,2-Tetrachloroethane	0.226	0.291	-28.8#	153	0.00
88 T	4-Ethyltoluene	1.744	2.145	-23.0#	140	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A02.d
 Acq On : 9 Nov 2017 8:09
 Operator : VOA105:PD
 Sample : WG1061312-9 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 09 08:35:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
89 T	2-Chlorotoluene	1.323	1.676	-26.7#	147	0.00
90 T	1,3,5-Trimethylbenzene	1.474	1.785	-21.1#	137	0.00
91 T	1,2,3-Trichloropropane	0.208	0.257	-23.6#	146	0.00
92 T	trans-1,4-Dichloro-2-butene *	10.000	7.524	24.8#	115	0.00
93 T	4-Chlorotoluene	1.332	1.718	-29.0#	146	0.00
94 T	tert-Butylbenzene	* 10.000	10.682	-6.8	136	0.00
97 T	1,2,4-Trimethylbenzene	* 10.000	11.089	-10.9	136	0.00
98 T	sec-Butylbenzene	* 10.000	11.193	-11.9	141	0.00
99 T	p-Isopropyltoluene	* 10.000	10.682	-6.8	136	0.00
100 T	1,3-Dichlorobenzene	0.908	0.969	-6.7	124	0.00
101 T	1,4-Dichlorobenzene	0.952	0.988	-3.8	121	0.00
102 T	p-Diethylbenzene	* 10.000	10.468	-4.7	138	0.00
103 T	n-Butylbenzene	* 10.000	11.881	-18.8	151	0.00
104 T	1,2-Dichlorobenzene	0.748	0.798	-6.7	124	0.00
105 T	1,2,4,5-Tetramethylbenzene *	10.000	9.999	0.0	140	0.00
106 T	1,2-Dibromo-3-chloropropane *	10.000	8.169	18.3	116	0.00
107 T	1,3,5-Trichlorobenzene	0.496	0.499	-0.6	117	0.00
108 T	Hexachlorobutadiene	0.183	0.198	-8.2	131	0.00
109 T	1,2,4-Trichlorobenzene	0.318	0.319	-0.3	123	0.00
110 T	Naphthalene	* 10.000	9.206	7.9	150	0.00
111 T	1,2,3-Trichlorobenzene	0.184	0.199	-8.2	128	0.00

* Evaluation of CC level amount vs concentration.

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A02.d
 Acq On : 9 Nov 2017 8:09
 Operator : VOA105:PD
 Sample : WG1061312-9 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 09 08:35:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.213	96	914886	10.000	ug/L	0.00	
59) Chlorobenzene-d5	9.765	117	656090	10.000	ug/L	0.00	
79) 1,4-Dichlorobenzene-d4	12.419	152	321389	10.000	ug/L	0.00	
System Monitoring Compounds							
36) Dibromofluoromethane	5.401	113	225418	8.654	ug/L	0.00	
Spiked Amount	10.000		Range 70 - 130	Recovery =	86.54%		
43) 1,2-Dichloroethane-d4	5.939	65	262894	9.168	ug/L	0.00	
Spiked Amount	10.000		Range 70 - 130	Recovery =	91.68%		
60) Toluene-d8	7.905	98	855358	10.170	ug/L	0.00	
Spiked Amount	10.000		Range 70 - 130	Recovery =	101.70%		
83) 4-Bromofluorobenzene	11.224	95	318201	11.789	ug/L	0.00	
Spiked Amount	10.000		Range 70 - 130	Recovery =	117.89%		
Target Compounds							
2) Dichlorodifluoromethane	1.743	85	163588	11.363	ug/L	98	Qvalue
3) Chloromethane	1.938	50	186239	14.392	ug/L	98	
4) Vinyl chloride	2.026	62	176502	14.719	ug/L	79	
5) Bromomethane	2.349	94	54126M1	8.454	ug/L		
6) Chloroethane	2.476	64	86548M1	12.366	ug/L		
7) Trichlorofluoromethane	2.613	101	238999	8.935	ug/L	98	
8) Ethyl ether	2.926	74	51638	11.469	ug/L	94	
10) 1,1-Dichloroethene	3.122	96	138589	10.811	ug/L	97	
11) Carbon disulfide	3.151	76	400459	11.841	ug/L	99	
12) Freon-113	3.151	101	148384	10.322	ug/L	98	
13) Iodomethane	3.269	142	74787	5.192	ug/L	90	
14) Acrolein	3.464	56	12819	12.550	ug/L	96	
15) Methylene chloride	3.689	84	157441	10.752	ug/L	99	
17) Acetone	3.738	43	22559	9.961	ug/L	92	
18) trans-1,2-Dichloroethene	3.846	96	157737	10.396	ug/L	99	
19) Methyl acetate	3.855	43	54117	11.765	ug/L	99	
20) Methyl tert-butyl ether	3.934	73	256363	10.486	ug/L	97	
21) tert-Butyl alcohol	4.041	59	23704	60.006	ug/L	93	
22) Diisopropyl ether	4.295	45	468125	12.488	ug/L	97	
23) 1,1-Dichloroethane	4.442	63	310915	11.314	ug/L	99	
24) Halothane	4.491	117	114932	9.382	ug/L	99	
25) Acrylonitrile	4.501	53	28170	12.112	ug/L	95	
26) Ethyl tert-butyl ether	4.648	59	331769	10.618	ug/L	95	
27) Vinyl acetate	4.667	43	265944	10.307	ug/L	100	
28) cis-1,2-Dichloroethene	4.961	96	171290	10.400	ug/L	96	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A02.d
 Acq On : 9 Nov 2017 8:09
 Operator : VOA105:PD
 Sample : WG1061312-9 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 09 08:35:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2,2-Dichloropropane	5.058	77	236999	9.765	ug/L	93
30) Bromochloromethane	5.156	128	66877	8.924	ug/L	98
31) Cyclohexane	5.146	56	301651	12.611	ug/L	97
32) Chloroform	5.225	83	284721	9.433	ug/L	98
33) Ethyl acetate	5.332	43	74072	11.668	ug/L	99
34) Carbon tetrachloride	5.352	117	216555	8.251	ug/L	100
35) Tetrahydrofuran	5.381	42	25699	10.918	ug/L	94
37) 1,1,1-Trichloroethane	5.420	97	258152	8.853	ug/L	99
39) 2-Butanone	5.528	43	30939	11.544	ug/L	98
40) 1,1-Dichloropropene	5.547	75	230398	10.355	ug/L	98
41) Benzene	5.792	78	635274	10.863	ug/L	99
42) tert-Amyl methyl ether	5.890	73	249803	9.376	ug/L	97
44) 1,2-Dichloroethane	6.007	62	186007	9.338	ug/L	99
47) Methyl cyclohexane	6.369	83	231904	10.990	ug/L	98
48) Trichloroethene	6.389	95	170873	9.324	ug/L	97
50) Dibromomethane	6.838	93	70371	9.100	ug/L	95
51) 1,2-Dichloropropane	6.946	63	158671	11.855	ug/L	95
53) 2-Chloroethyl vinyl ether	7.641	63	4385M1	3.847	ug/L	
54) Bromodichloromethane	7.015	83	193776	9.137	ug/L	99
57) 1,4-Dioxane	7.230	88	28879	531.273	ug/L	94
58) cis-1,3-Dichloropropene	7.709	75	201220	8.662	ug/L	94
61) Toluene	7.963	92	411661	11.017	ug/L	98
62) 4-Methyl-2-pentanone	8.403	58	21817	11.711	ug/L	88
63) Tetrachloroethene	8.413	166	177621	8.600	ug/L	93
65) trans-1,3-Dichloropropene	8.462	75	159398	8.975	ug/L	95
67) Ethyl methacrylate	8.638	69	108671	9.652	ug/L	100
68) 1,1,2-Trichloroethane	8.648	83	93443	11.353	ug/L	100
69) Chlorodibromomethane	8.854	129	107078	8.977	ug/L	97
70) 1,3-Dichloropropane	8.971	76	174276	11.318	ug/L	99
71) 1,2-Dibromoethane	9.138	107	86623	10.264	ug/L	99
72) 2-Hexanone	9.422	43	35748	9.614	ug/L	94
73) Chlorobenzene	9.784	112	438548	10.244	ug/L	96
74) Ethylbenzene	9.814	91	796390	11.114	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.863	131	136562	9.049	ug/L	98
76) p/m Xylene	10.000	106	596598	22.011	ug/L	99
77) o Xylene	10.529	106	547236	20.922	ug/L	98
78) Styrene	10.597	104	883432	20.952	ug/L	95
80) Bromoform	10.627	173	51192	8.811	ug/L	98
82) Isopropylbenzene	10.901	105	737241	11.199	ug/L	100
84) Bromobenzene	11.342	156	158955	9.887	ug/L	99
85) n-Propylbenzene	11.371	91	887661	13.004	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A02.d
 Acq On : 9 Nov 2017 8:09
 Operator : VOA105:PD
 Sample : WG1061312-9 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 09 08:35:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) 1,4-Dichlorobutane	11.401	55	166208	14.445	ug/L	98
87) 1,1,2,2-Tetrachloroethane	11.469	83	93607	12.867	ug/L	99
88) 4-Ethyltoluene	11.489	105	689414	12.298	ug/L	100
89) 2-Chlorotoluene	11.538	91	538506M1	12.666	ug/L	
90) 1,3,5-Trimethylbenzene	11.587	105	573784	12.111	ug/L	99
91) 1,2,3-Trichloropropane	11.606	75	82745M1	12.407	ug/L	
92) trans-1,4-Dichloro-2-b...	11.655	53	14549M1	7.524	ug/L	
93) 4-Chlorotoluene	11.724	91	552141	12.899	ug/L	99
94) tert-Butylbenzene	11.930	119	458910	10.682	ug/L	98
97) 1,2,4-Trimethylbenzene	12.008	105	573020	11.089	ug/L	98
98) sec-Butylbenzene	12.116	105	633300	11.193	ug/L	99
99) p-Isopropyltoluene	12.263	119	530995	10.682	ug/L	97
100) 1,3-Dichlorobenzene	12.341	146	311350	10.666	ug/L	98
101) 1,4-Dichlorobenzene	12.429	146	317502	10.374	ug/L	98
102) p-Diethylbenzene	12.635	119	297165	10.468	ug/L	97
103) n-Butylbenzene	12.694	91	486028	11.881	ug/L	99
104) 1,2-Dichlorobenzene	12.850	146	256372	10.665	ug/L	99
105) 1,2,4,5-Tetramethylben...	13.419	119	387949	9.999	ug/L	97
106) 1,2-Dibromo-3-chloropr...	13.634	155	7645	8.169	ug/L	94
107) 1,3,5-Trichlorobenzene	13.654	180	160433	10.064	ug/L	96
108) Hexachlorobutadiene	14.212	225	63680	10.849	ug/L	100
109) 1,2,4-Trichlorobenzene	14.251	180	102651	10.050	ug/L	99
110) Naphthalene	14.545	128	127374	9.206	ug/L	100
111) 1,2,3-Trichlorobenzene	14.712	180	63900	10.807	ug/L	97

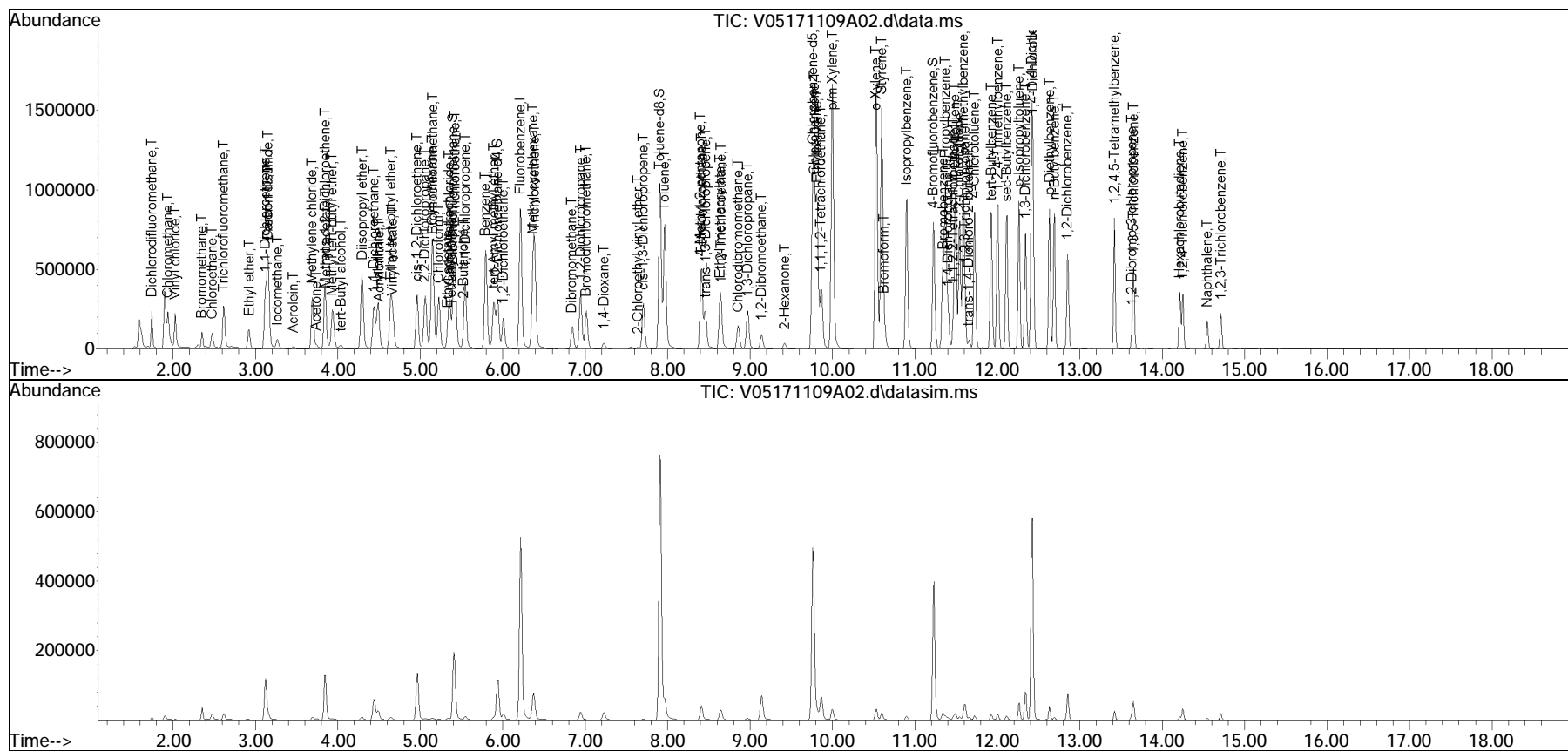
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A02.d
 Acq On : 9 Nov 2017 8:09
 Operator : VOA105:PD
 Sample : WG1061312-9 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 09 08:35:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

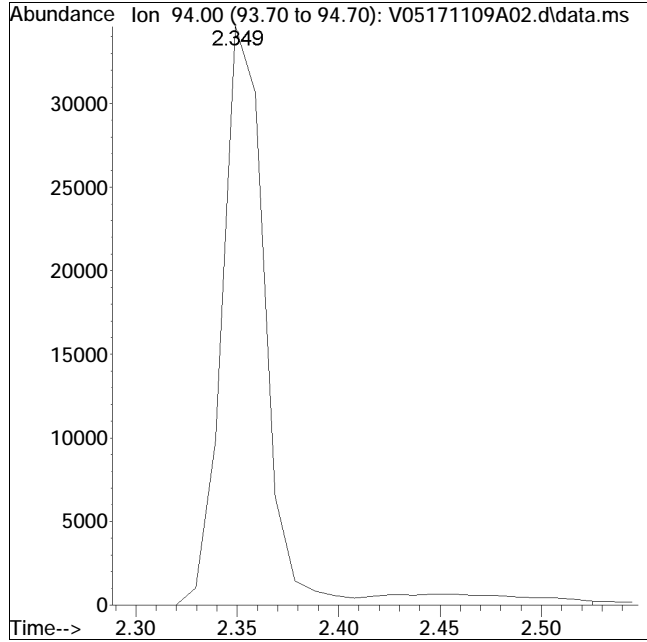
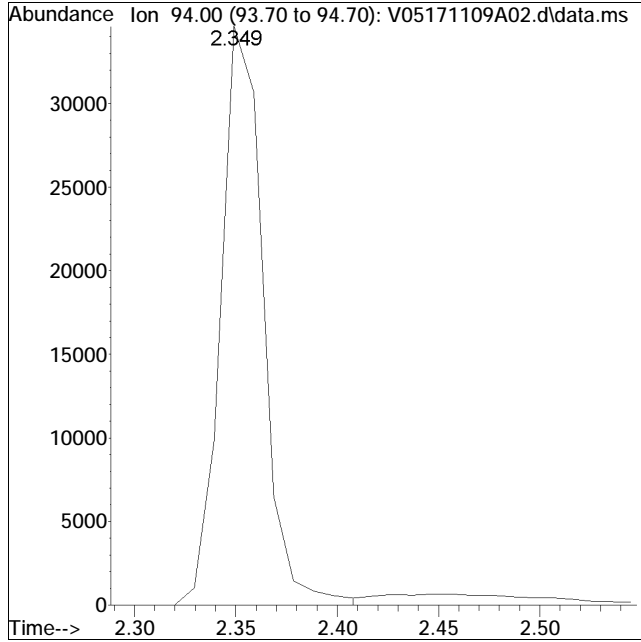
Sub List : 8260-Curve - Megamix plus Diox



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171109A02.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 8:09 Instrument : VOA 105
Sample : WG1061312-9 Quant Date : 11/9/2017 8:33 am

Compound #5: Bromomethane



Original Peak Response = 50469

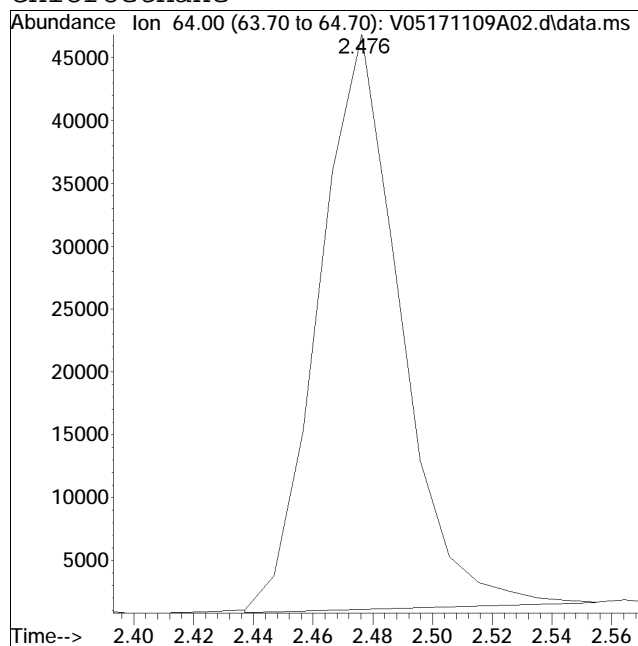
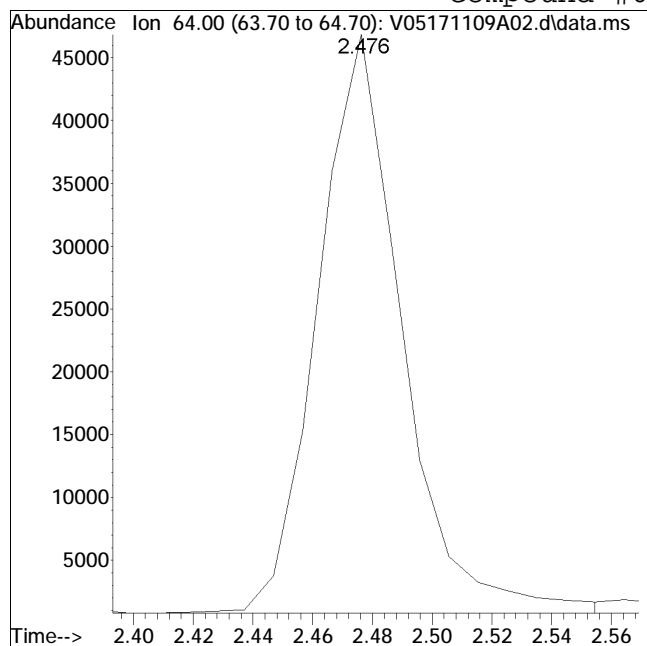
Manual Peak Response = 54126 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171109A02.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 8:09 Instrument : VOA 105
Sample : WG1061312-9 Quant Date : 11/9/2017 8:33 am

Compound #6: Chloroethane



Original Peak Response = 89828

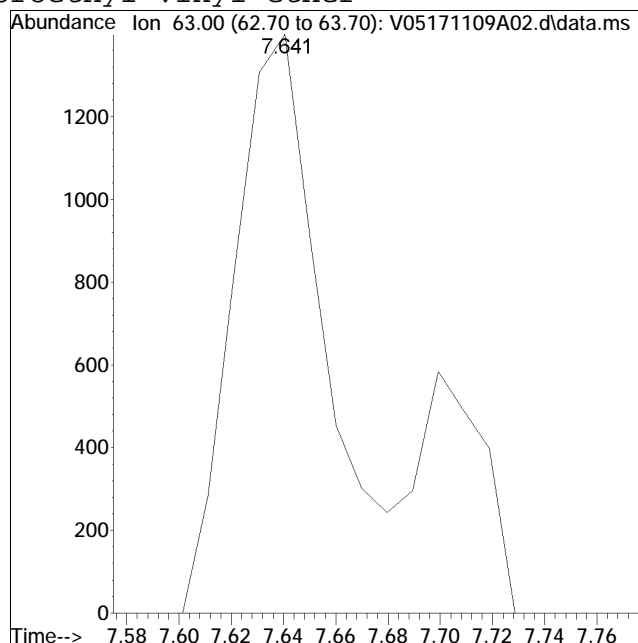
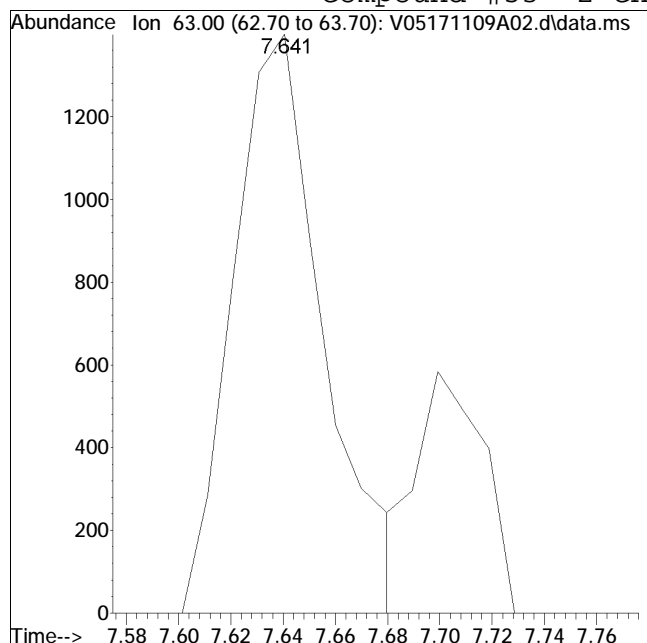
Manual Peak Response = 86548 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171109A02.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 8:09 Instrument : VOA 105
Sample : WG1061312-9 Quant Date : 11/9/2017 8:33 am

Compound #53: 2-Chloroethyl vinyl ether



Original Peak Response = 3348

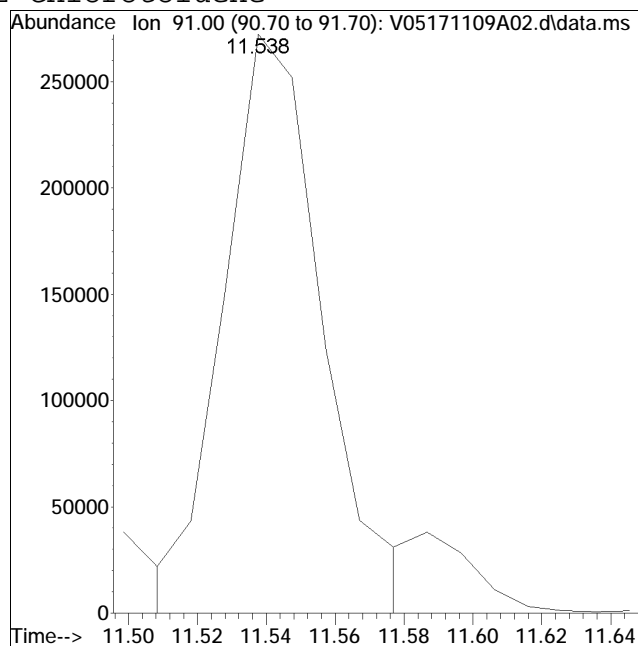
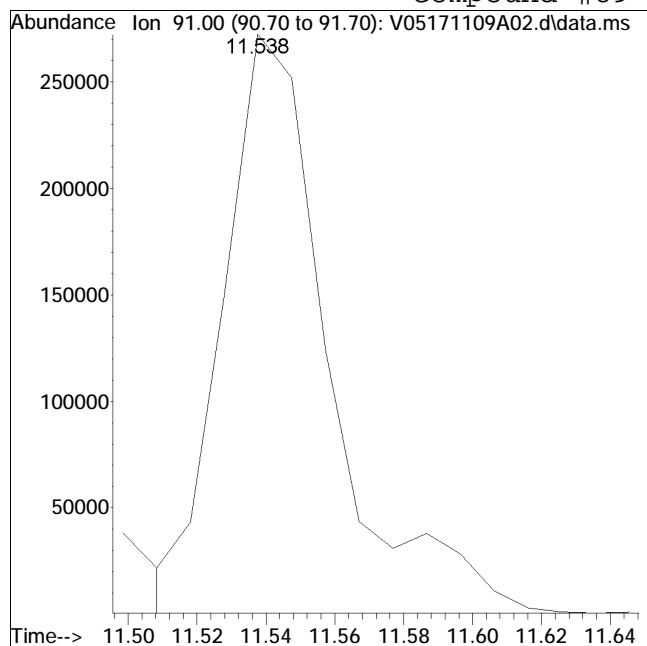
Manual Peak Response = 4385 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171109A02.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 8:09 Instrument : VOA 105
Sample : WG1061312-9 Quant Date : 11/9/2017 8:33 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 582043

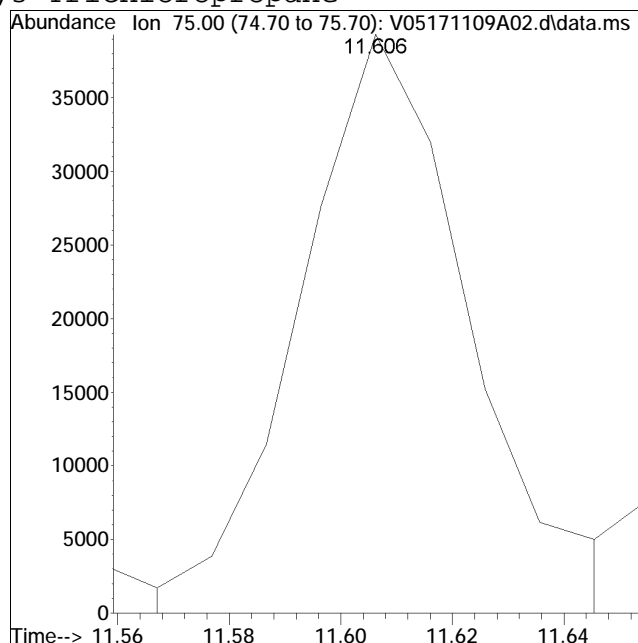
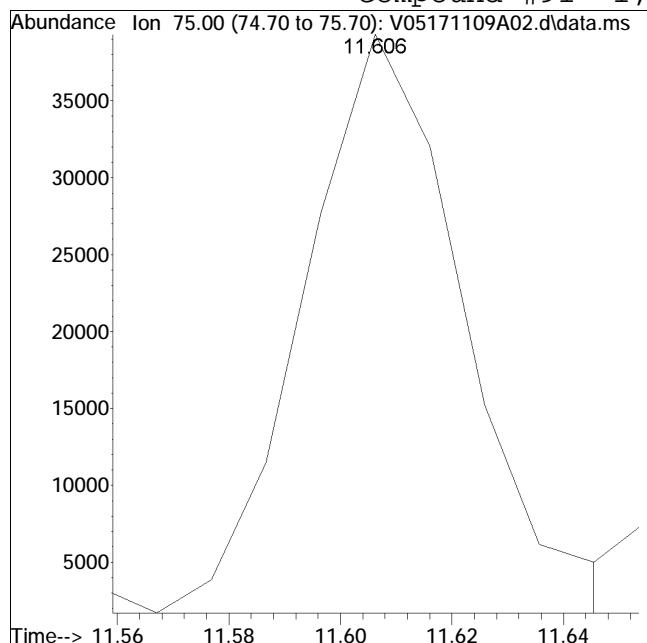
Manual Peak Response = 538506 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171109A02.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 8:09 Instrument : VOA 105
Sample : WG1061312-9 Quant Date : 11/9/2017 8:33 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 74681

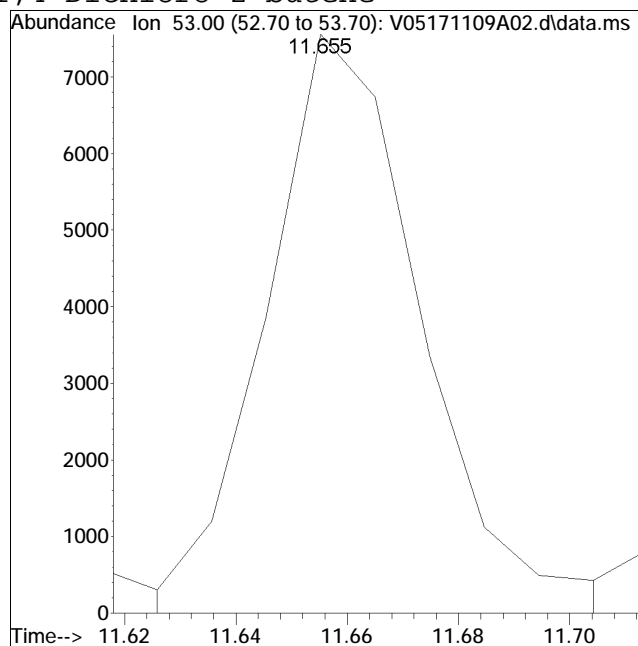
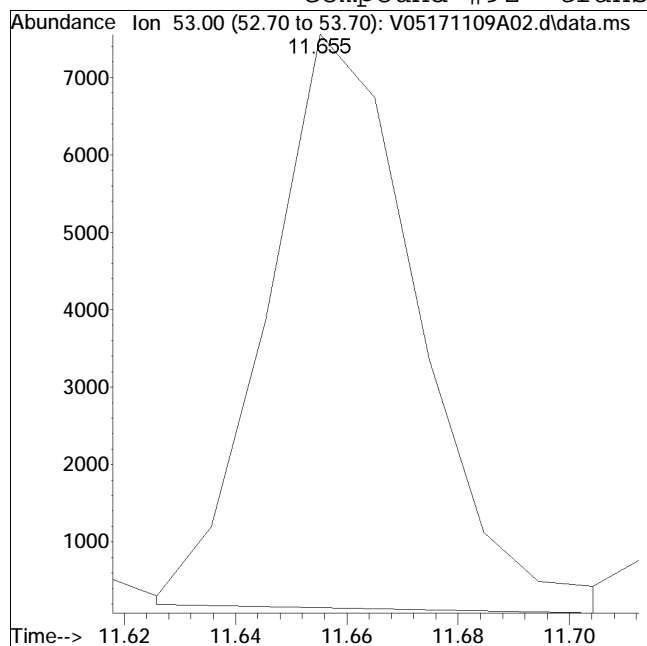
Manual Peak Response = 82745 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171109A02.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 8:09 Instrument : VOA 105
Sample : WG1061312-9 Quant Date : 11/9/2017 8:33 am

Compound #92: trans-1,4-Dichloro-2-butene



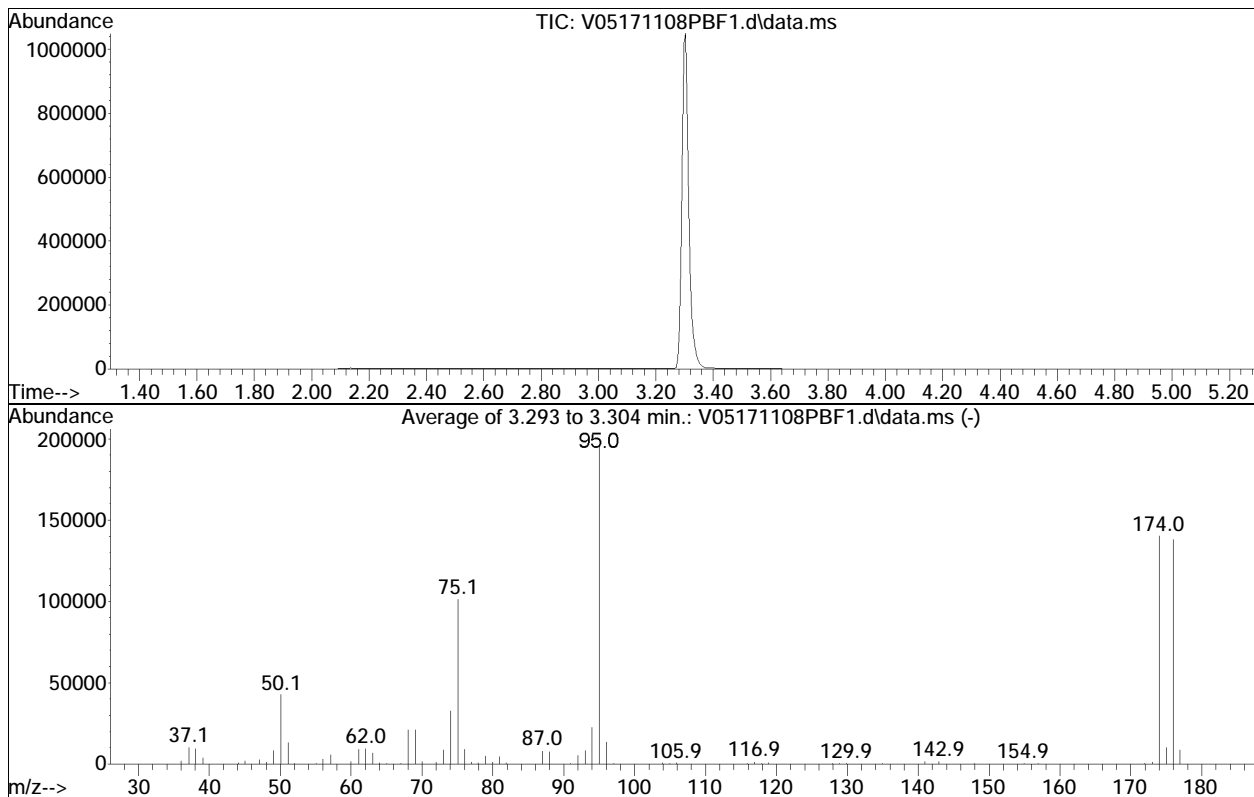
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

BFB

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108PBF1.d
 Acq On : 8 Nov 2017 8:34 pm
 Operator : VOA105:PD
 Sample : WG1061312-1
 Misc : WG1061312
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Oct 26 21:10:14 2017



AutoFind: Scans 221, 222, 223; Background Corrected with Scan 214

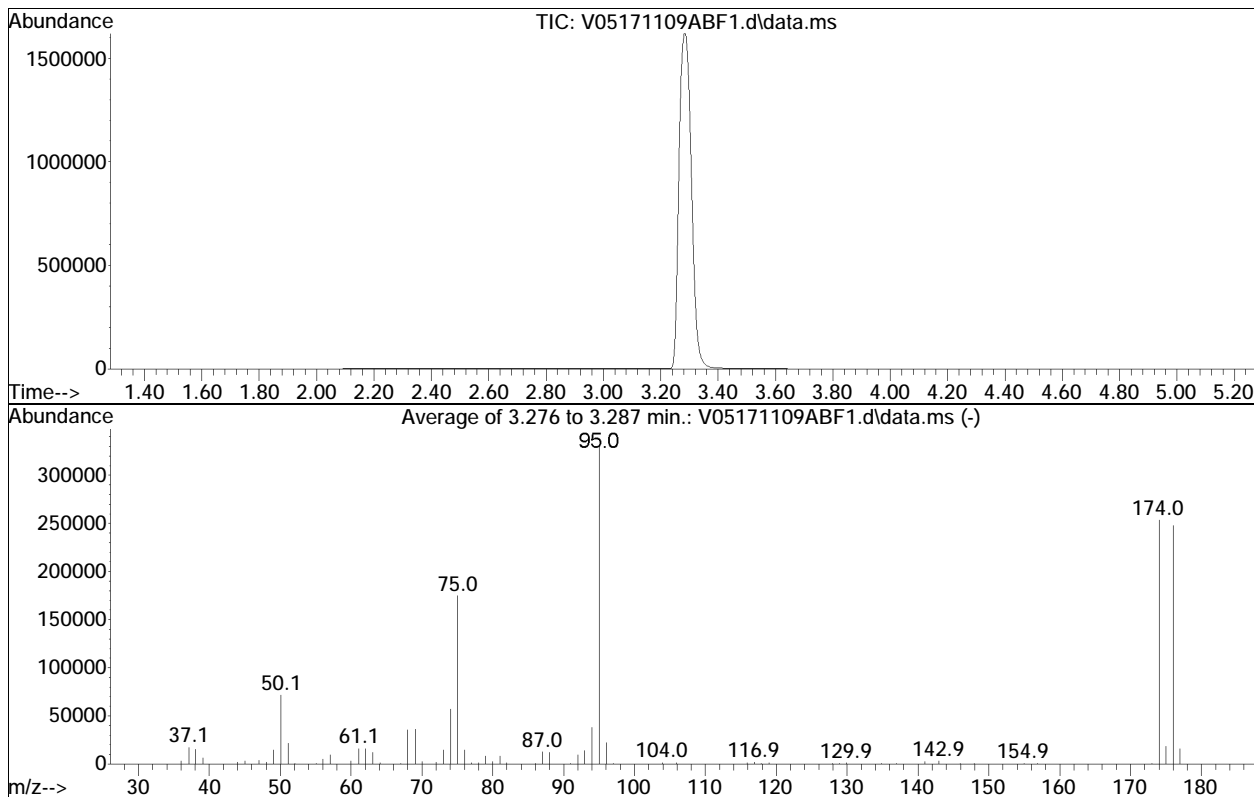
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	42701	PASS
75	95	30	60	51.7	101517	PASS
95	95	100	100	100.0	196480	PASS
96	95	5	9	6.9	13546	PASS
173	174	0.00	2	0.8	1072	PASS
174	95	50	100	71.4	140384	PASS
175	174	5	9	7.2	10154	PASS
176	174	95	101	98.4	138133	PASS
177	176	5	9	6.5	8963	PASS

BFB

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109ABF1.d
 Acq On : 9 Nov 2017 7:25
 Operator : VOA105:PD
 Sample : WG1061312-8
 Misc : WG1061312
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Thu Oct 26 21:10:14 2017



AutoFind: Scans 218, 219, 220; Background Corrected with Scan 208

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	71435	PASS
75	95	30	60	52.7	174827	PASS
95	95	100	100	100.0	331819	PASS
96	95	5	9	6.6	22032	PASS
173	174	0.00	2	0.5	1211	PASS
174	95	50	100	76.4	253632	PASS
175	174	5	9	7.3	18531	PASS
176	174	95	101	97.8	248043	PASS
177	176	5	9	6.4	15977	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P05.d
 Acq On : 8 Nov 2017 10:33 pm
 Operator : VOA105:AD
 Sample : WG1061312-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 09 07:10:59 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.212	96	1019310	10.000	ug/L	0.00	
Standard Area 1 = 1085488			Recovery =	93.90%			
59) Chlorobenzene-d5	9.764	117	711625	10.000	ug/L	0.00	
Standard Area 1 = 758413			Recovery =	93.83%			
79) 1,4-Dichlorobenzene-d4	12.419	152	321940	10.000	ug/L	0.00	
Standard Area 1 = 355962			Recovery =	90.44%			
System Monitoring Compounds							
36) Dibromofluoromethane	5.410	113	239420	8.249	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	82.49%			
43) 1,2-Dichloroethane-d4	5.939	65	272358	8.525	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	85.25%			
60) Toluene-d8	7.904	98	930116	10.196	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.96%			
83) 4-Bromofluorobenzene	11.224	95	320313	11.847	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	118.47%			
Target Compounds							
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	0.000		0		N.D. d		
4) Vinyl chloride	0.000		0		N.D.		
5) Bromomethane	2.359	94	247		N.D.		
6) Chloroethane	2.496	64	464		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	3.151	76	2967	0.079	ug/L #	81	
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	3.689	84	725		N.D.		
17) Acetone	3.748	43	750	0.297	ug/L #	77	
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	0.000		0		N.D. d		
20) Methyl tert-butyl ether	0.000		0		N.D.		
23) 1,1-Dichloroethane	0.000		0		N.D.		
28) cis-1,2-Dichloroethene	0.000		0		N.D.		
30) Bromochloromethane	0.000		0		N.D.		
31) Cyclohexane	0.000		0		N.D.		
32) Chloroform	5.225	83	663		N.D.		
34) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P05.d
 Acq On : 8 Nov 2017 10:33 pm
 Operator : VOA105:AD
 Sample : WG1061312-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 09 07:10:59 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	5.635	43	205		N.D.	
41) Benzene	0.000		0		N.D.	
44) 1,2-Dichloroethane	6.007	62	833		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	6.388	95	385		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	d
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	9.774	112	375		N.D.	
74) Ethylbenzene	9.813	91	381		N.D.	
76) p/m Xylene	10.019	106	213		N.D.	
77) o Xylene	0.000		0		N.D.	d
78) Styrene	0.000		0		N.D.	d
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	d
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.351	146	782		N.D.	
101) 1,4-Dichlorobenzene	12.429	146	1050		N.D.	
104) 1,2-Dichlorobenzene	12.860	146	638		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	14.251	180	1684	0.165	ug/L	# 91
111) 1,2,3-Trichlorobenzene	14.711	180	2358	0.398	ug/L	98

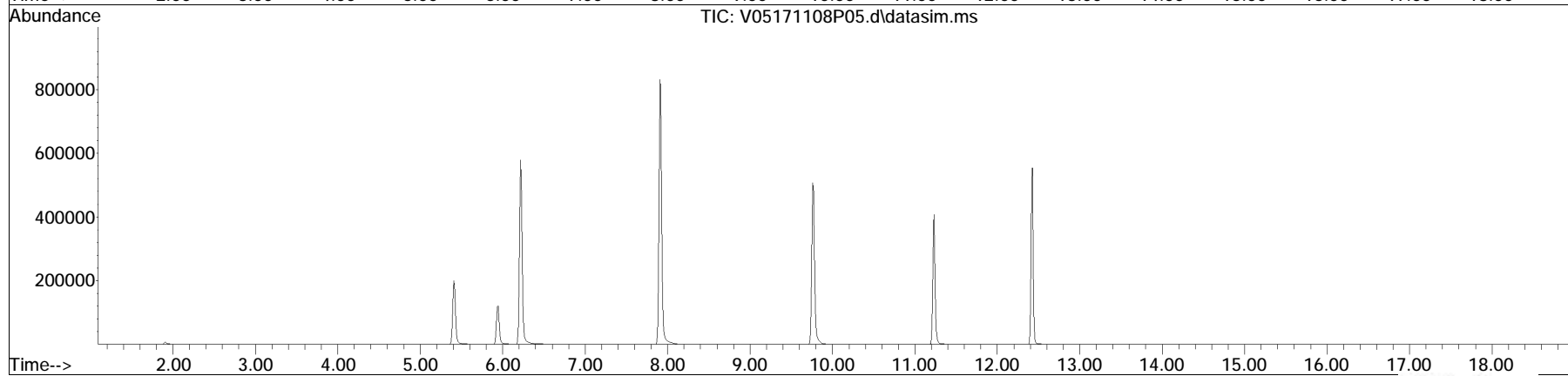
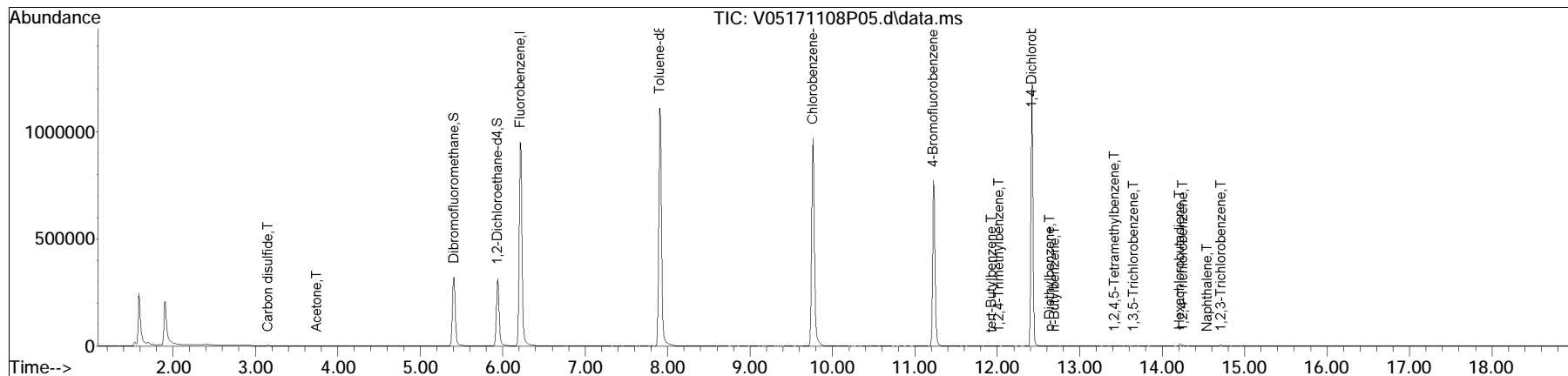
(#) = qualifier out of range (m) = manual integration (+) = signals summed

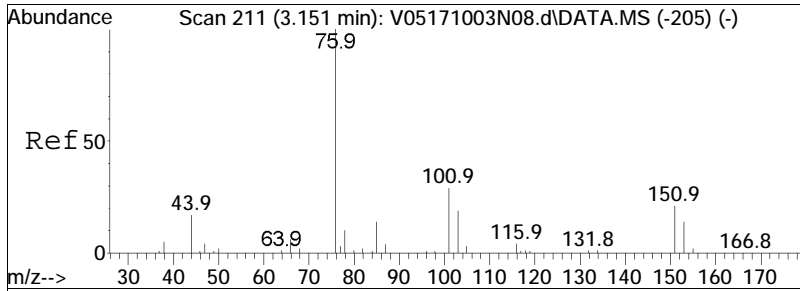
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P05.d
 Acq On : 8 Nov 2017 10:33 pm
 Operator : VOA105:AD
 Sample : WG1061312-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 09 07:10:59 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

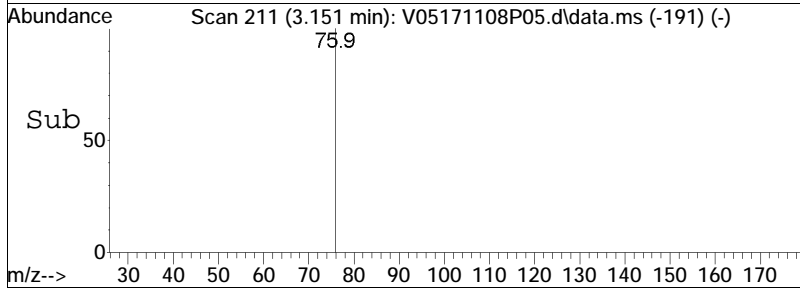
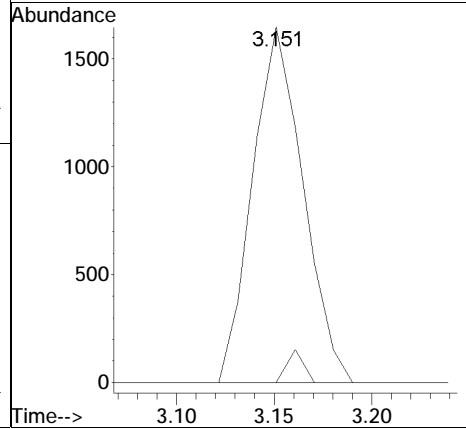
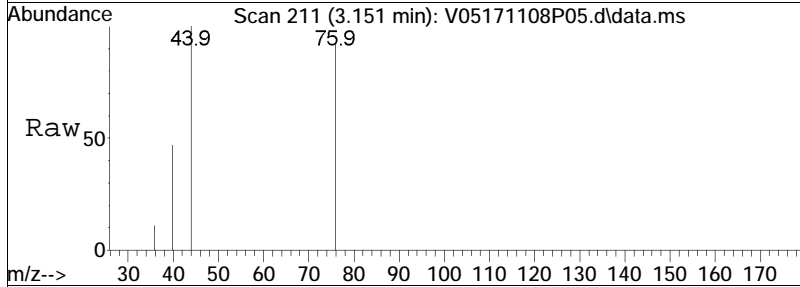
Sub List : 8260-Curve - Megamix plus Diox71108P\V05171108P01.d•

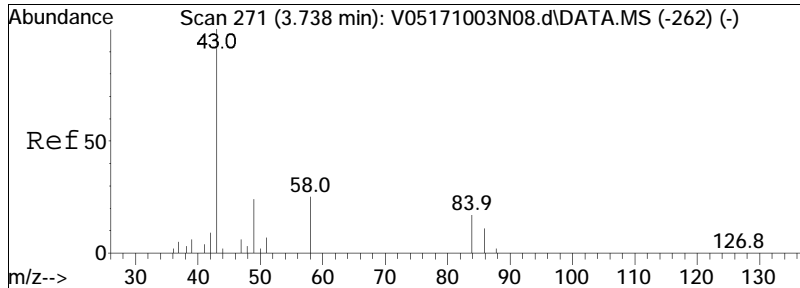




#11
 Carbon disulfide
 Concen: 0.08 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: V05171108P05.d
 Acq: 8 Nov 2017 10:33 pm

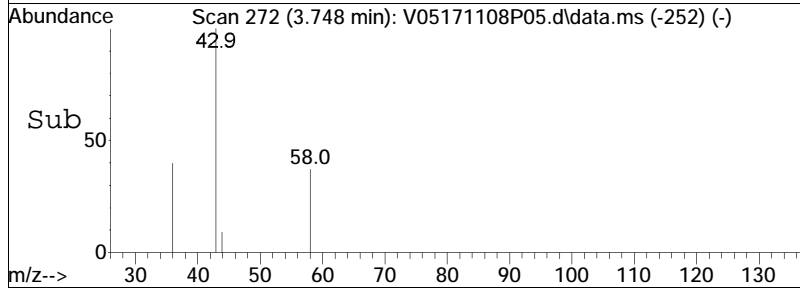
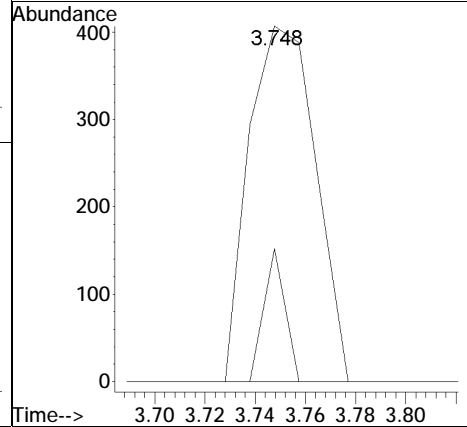
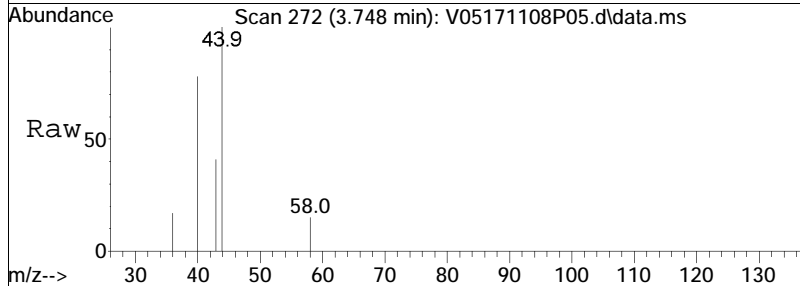
Tgt Ion: 76 Resp: 2967
 Ion Ratio Lower Upper
 76 100
 78 3.0 6.7 13.9#

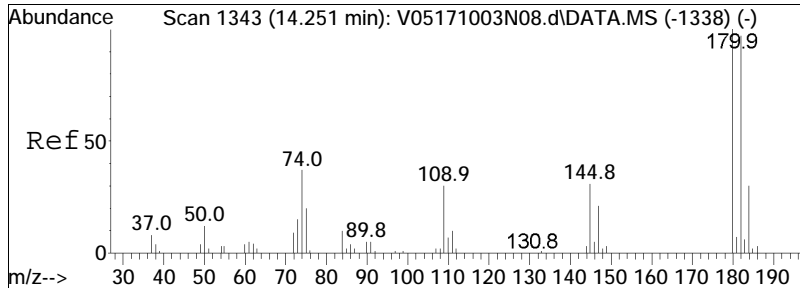




#17
 Acetone
 Concen: 0.30 ug/L
 RT: 3.748 min Scan# 272
 Delta R.T. -0.000 min
 Lab File: V05171108P05.d
 Acq: 8 Nov 2017 10:33 pm

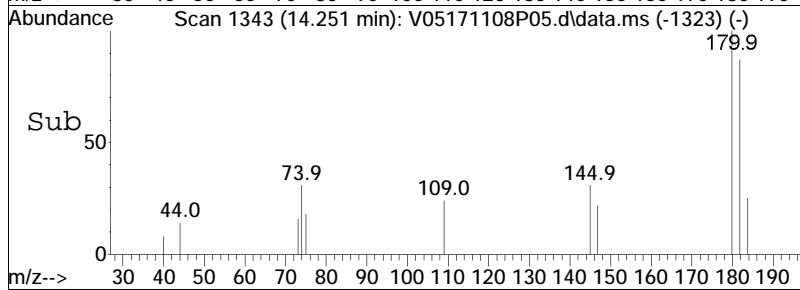
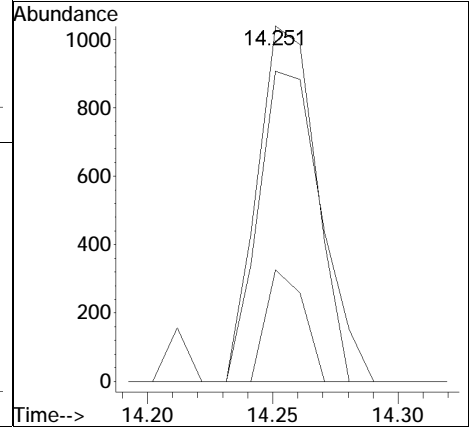
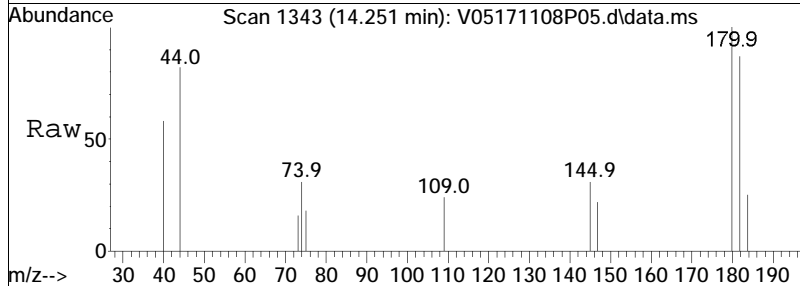
Tgt Ion	Resp	Lower	Upper
43	100		
58	11.9	18.5	27.7#

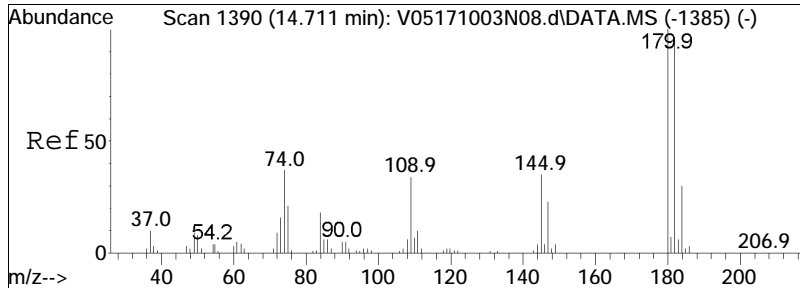




#109
 1,2,4-Trichlorobenzene
 Concen: 0.16 ug/L
 RT: 14.251 min Scan# 1343
 Delta R.T. -0.000 min
 Lab File: V05171108P05.d
 Acq: 8 Nov 2017 10:33 pm

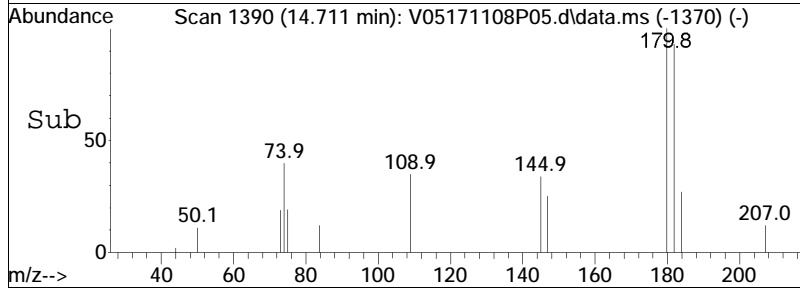
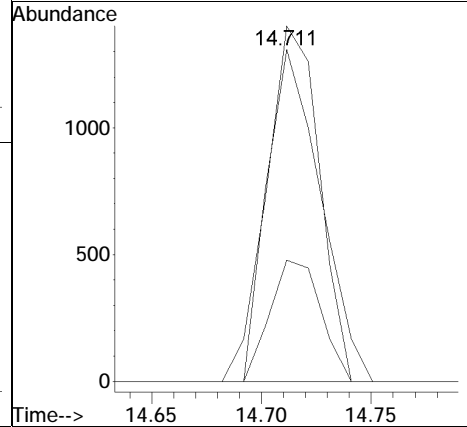
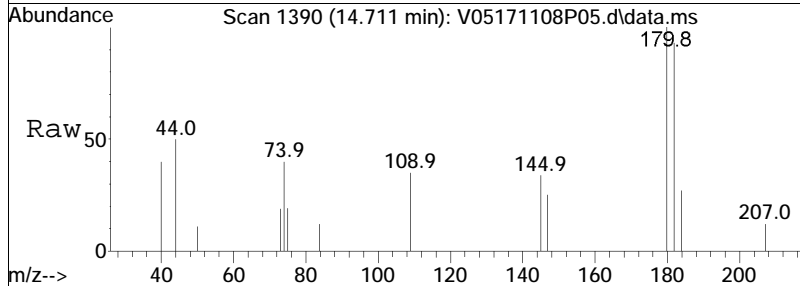
Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.3	114.5
145	20.4	31.0	46.4#





#111
 1,2,3-Trichlorobenzene
 Concen: 0.40 ug/L
 RT: 14.711 min Scan# 1390
 Delta R.T. -0.000 min
 Lab File: V05171108P05.d
 Acq: 8 Nov 2017 10:33 pm

Tgt Ion	Resp	Lower	Upper
180	100		
182	94.4	76.2	114.2
145	32.7	28.2	42.2



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171108P05.d Operator : VOA105:AD
Date Inj'd : 11/8/2017 10:33 pm Instrument : VOA 105
Sample : WG1061312-5,31,10,10 Quant Date : 11/9/2017 7:10 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A05.d
 Acq On : 9 Nov 2017 9:24
 Operator : VOA105:PD
 Sample : WG1061312-12,31,10,10 (Sig #1); METHOD BLK (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 09 10:02:18 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171109A\V05171109A02.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.212	96	855058	10.000	ug/L	0.00
Standard Area 1 = 914886			Recovery =	93.46%		
59) Chlorobenzene-d5	9.765	117	605477	10.000	ug/L	0.00
Standard Area 1 = 656090			Recovery =	92.29%		
79) 1,4-Dichlorobenzene-d4	12.419	152	276068	10.000	ug/L	0.00
Standard Area 1 = 321389			Recovery =	85.90%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.410	113	206404	8.478	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	84.78%		
43) 1,2-Dichloroethane-d4	5.939	65	238406	8.896	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	88.96%		
60) Toluene-d8	7.904	98	781978	10.074	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.74%		
83) 4-Bromofluorobenzene	11.224	95	266187	11.481	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	114.81%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.	
3) Chloromethane	0.000		0		N.D. d	
4) Vinyl chloride	0.000		0		N.D.	
5) Bromomethane	2.359	94	214		N.D.	
6) Chloroethane	0.000		0		N.D. d	
7) Trichlorofluoromethane	0.000		0		N.D.	
10) 1,1-Dichloroethene	0.000		0		N.D.	
11) Carbon disulfide	3.151	76	2452	0.078	ug/L #	82
12) Freon-113	0.000		0		N.D.	
15) Methylene chloride	3.689	84	2514	0.184	ug/L	94
17) Acetone	0.000		0		N.D. d	
18) trans-1,2-Dichloroethene	0.000		0		N.D.	
19) Methyl acetate	0.000		0		N.D. d	
20) Methyl tert-butyl ether	0.000		0		N.D.	
23) 1,1-Dichloroethane	0.000		0		N.D.	
28) cis-1,2-Dichloroethene	4.960	96	483		N.D.	
30) Bromochloromethane	0.000		0		N.D.	
31) Cyclohexane	0.000		0		N.D.	
32) Chloroform	5.225	83	661		N.D.	
34) Carbon tetrachloride	0.000		0		N.D.	

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A05.d
 Acq On : 9 Nov 2017 9:24
 Operator : VOA105:PD
 Sample : WG1061312-12,31,10,10 (Sig #1); METHOD BLK (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 09 10:02:18 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171109A\V05171109A02.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	5.802	78	93		N.D.	
44) 1,2-Dichloroethane	6.007	62	743		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	d
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	9.784	112	213		N.D.	
74) Ethylbenzene	9.813	91	389		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	d
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	12.341	146	615		N.D.	
101) 1,4-Dichlorobenzene	12.429	146	887		N.D.	
104) 1,2-Dichlorobenzene	12.860	146	559		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	14.251	180	1478	0.168	ug/L #	83
111) 1,2,3-Trichlorobenzene	14.711	180	1787	0.352	ug/L #	91

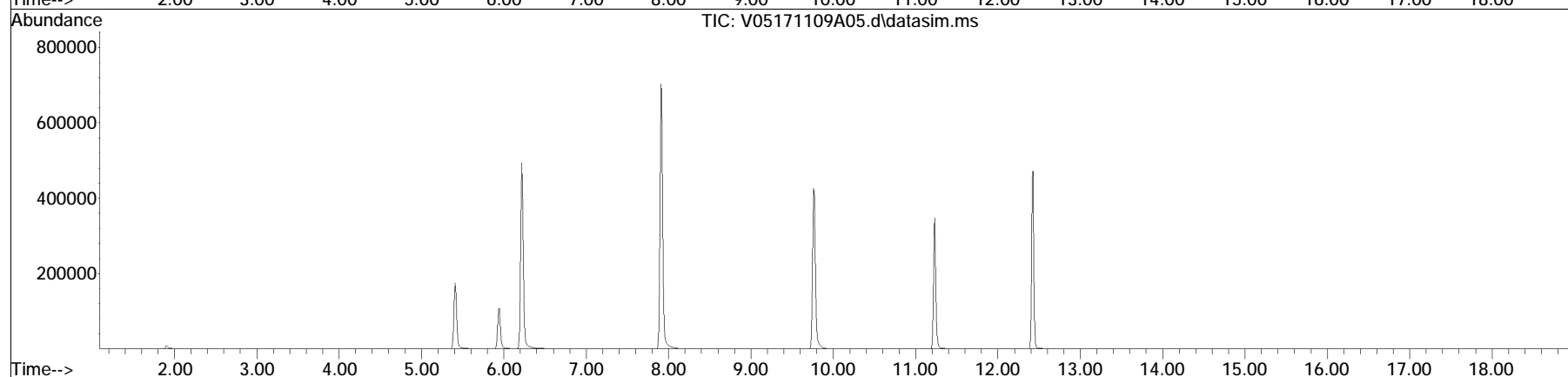
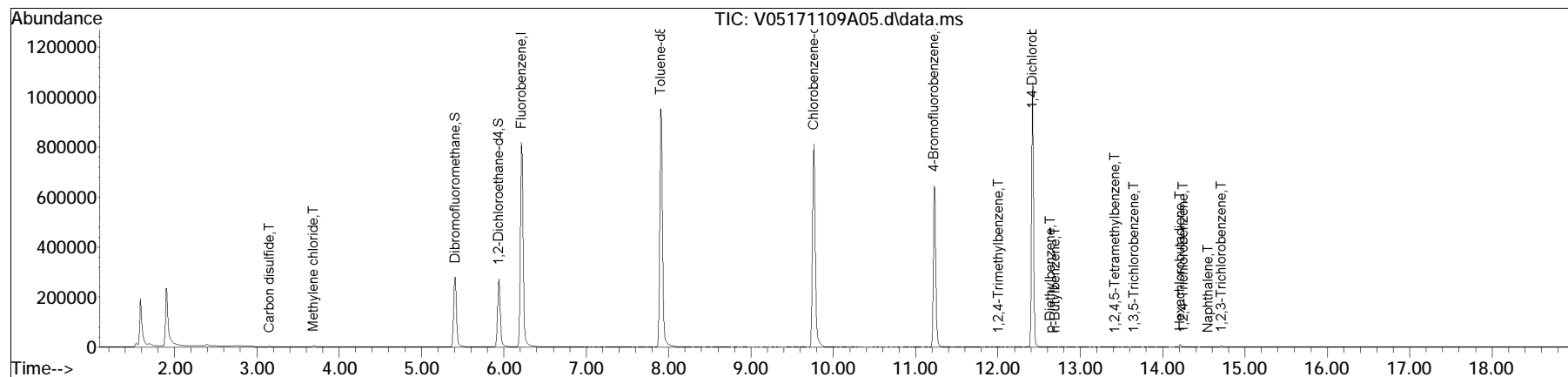
(#) = qualifier out of range (m) = manual integration (+) = signals summed

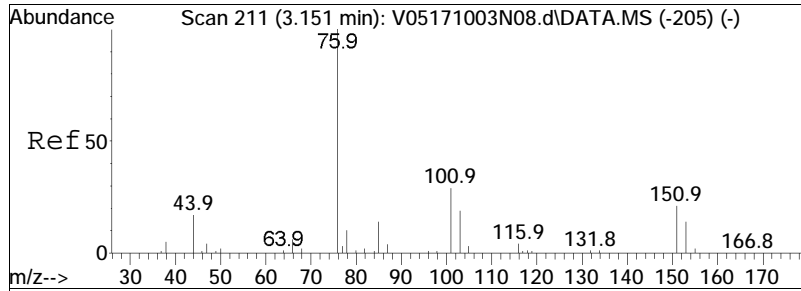
Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A05.d
 Acq On : 9 Nov 2017 9:24
 Operator : VOA105:PD
 Sample : WG1061312-12,31,10,10 (Sig #1); METHOD BLK (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 09 10:02:18 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

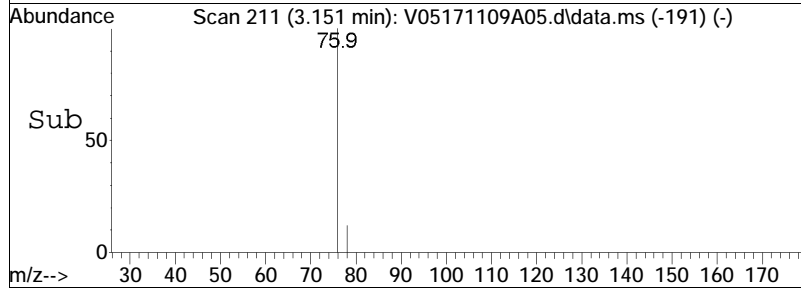
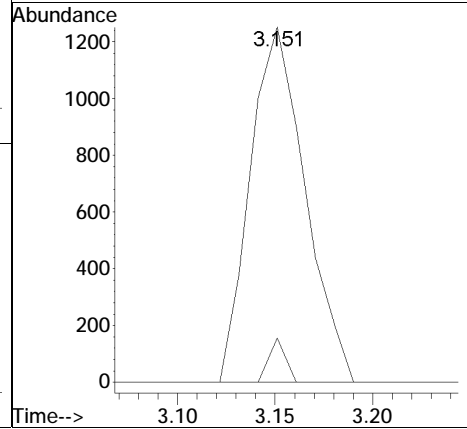
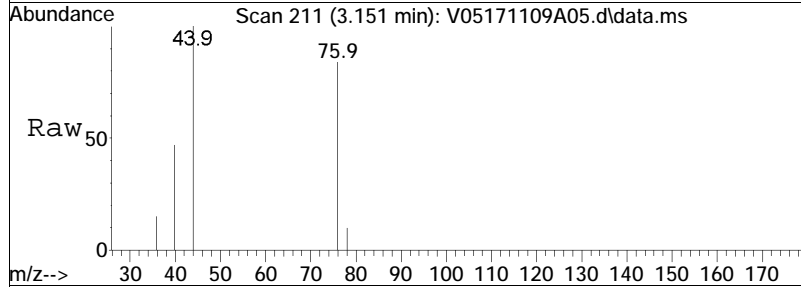
Sub List : 8260-Curve - Megamix plus Diox71109A\V05171109A02.d•

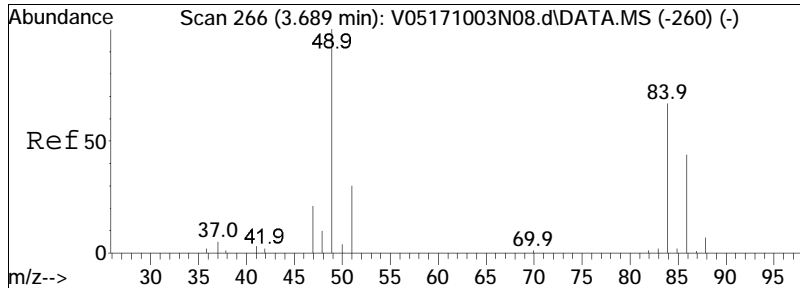




#11
 Carbon disulfide
 Concen: 0.08 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: V05171109A05.d
 Acq: 9 Nov 2017 9:24

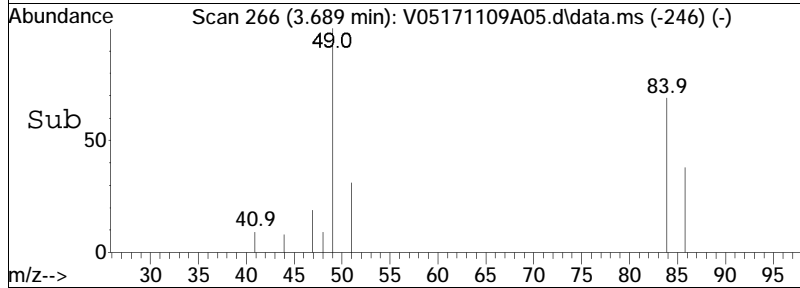
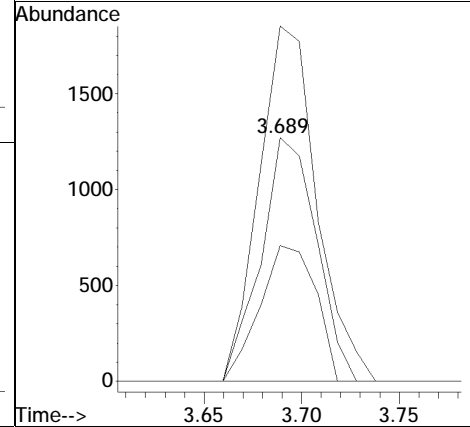
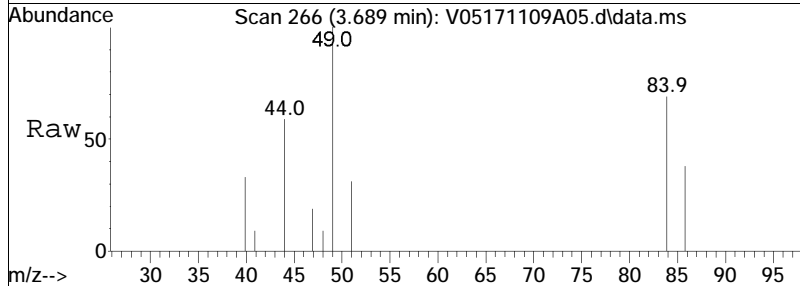
Tgt Ion: 76 Resp: 2452
 Ion Ratio Lower Upper
 76 100
 78 3.8 6.7 13.9#

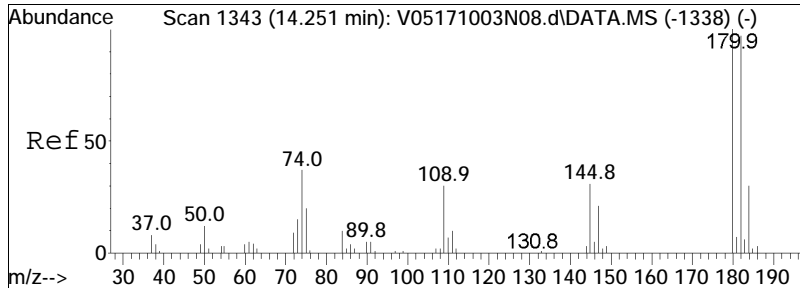




#15
 Methylene chloride
 Concen: 0.18 ug/L
 RT: 3.689 min Scan# 266
 Delta R.T. -0.000 min
 Lab File: V05171109A05.d
 Acq: 9 Nov 2017 9:24

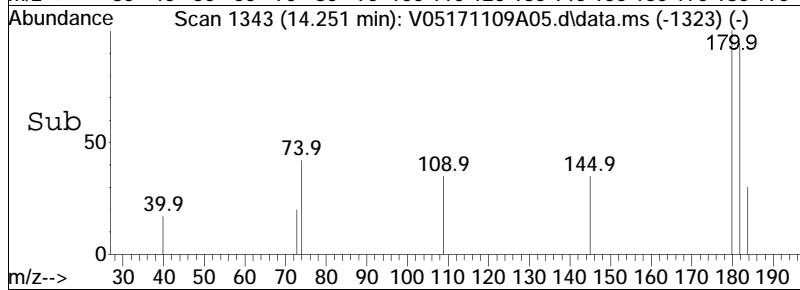
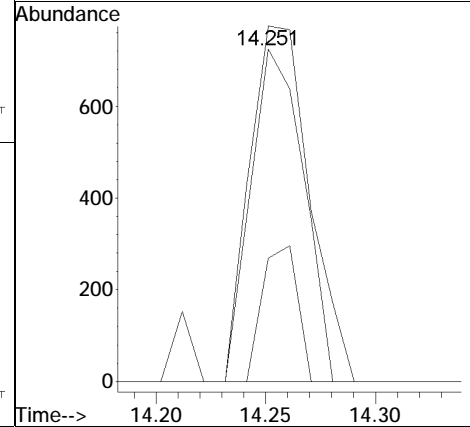
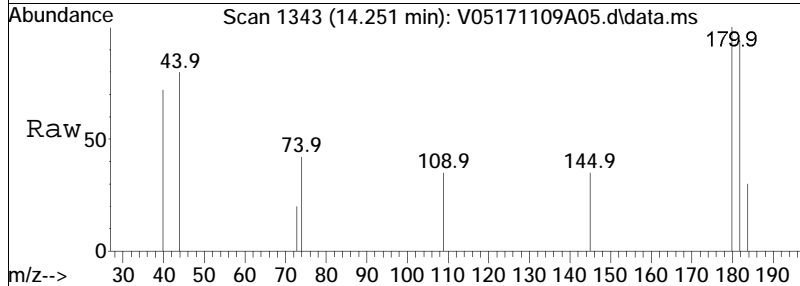
Tgt Ion:	84	Resp:	2514
Ion Ratio	Lower	Upper	
84	100		
86	56.0	41.9	86.9
49	151.6	95.1	197.5

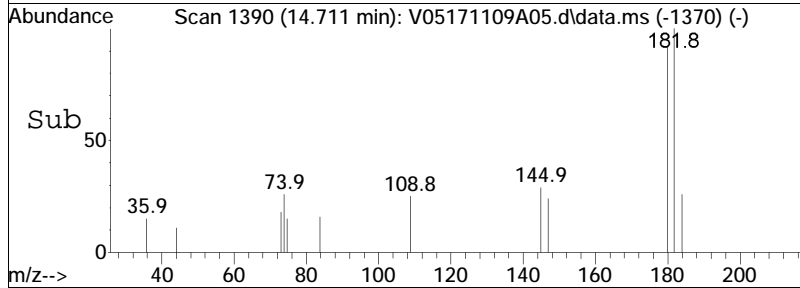
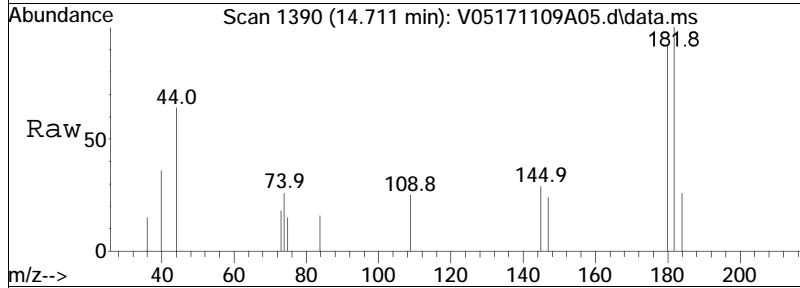
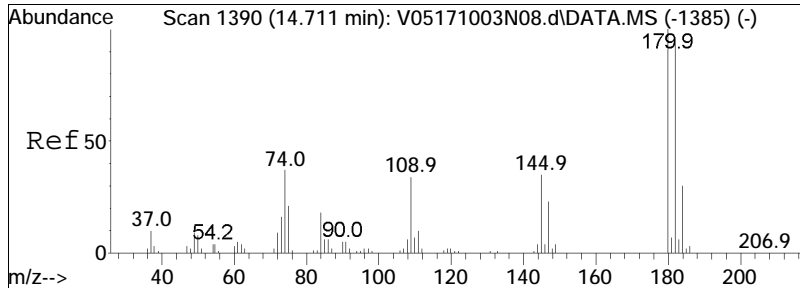




#109
 1,2,4-Trichlorobenzene
 Concen: 0.17 ug/L
 RT: 14.251 min Scan# 1343
 Delta R.T. -0.000 min
 Lab File: V05171109A05.d
 Acq: 9 Nov 2017 9:24

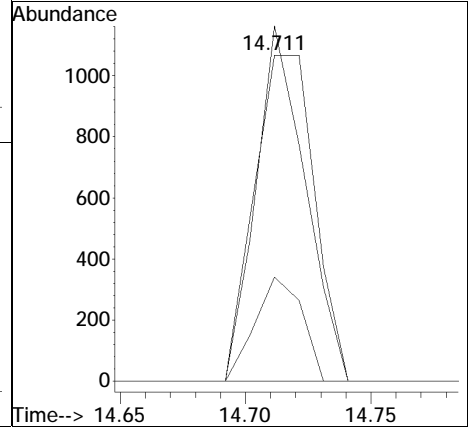
Tgt Ion	Resp	Lower	Upper
180	1478		
180	100		
182	82.6	76.3	114.5
145	22.5	31.0	46.4#





#111
 1,2,3-Trichlorobenzene
 Concen: 0.35 ug/L
 RT: 14.711 min Scan# 1390
 Delta R.T. -0.000 min
 Lab File: V05171109A05.d
 Acq: 9 Nov 2017 9:24

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.0	76.2	114.2
145	24.9	28.2	42.2#



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171109A05.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 9:24 Instrument : VOA 105
Sample : WG1061312-12,31,10,10 Quant Date : 11/9/2017 10:01 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P01.d
 Acq On : 8 Nov 2017 8:53 pm
 Operator : VOA105:AD
 Sample : WG1061312-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 09 07:13:14 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.212	96	1085488	10.000	ug/L	0.00	
59) Chlorobenzene-d5	9.764	117	758413	10.000	ug/L	0.00	
79) 1,4-Dichlorobenzene-d4	12.419	152	355962	10.000	ug/L	0.00	
System Monitoring Compounds							
36) Dibromofluoromethane	5.401	113	253708	8.209	ug/L	-0.01	
Spiked Amount	10.000		Range 70 - 130	Recovery =	82.09%		
43) 1,2-Dichloroethane-d4	5.938	65	292431	8.596	ug/L	0.00	
Spiked Amount	10.000		Range 70 - 130	Recovery =	85.96%		
60) Toluene-d8	7.904	98	1007818	10.366	ug/L	0.00	
Spiked Amount	10.000		Range 70 - 130	Recovery =	103.66%		
83) 4-Bromofluorobenzene	11.224	95	363910	12.173	ug/L	0.00	
Spiked Amount	10.000		Range 70 - 130	Recovery =	121.73%		
Target Compounds							
2) Dichlorodifluoromethane	1.742	85	141598	8.289	ug/L		98
3) Chloromethane	1.938	50	181005	11.789	ug/L		97
4) Vinyl chloride	2.026	62	176398	12.398	ug/L		78
5) Bromomethane	2.349	94	53078	6.988	ug/L		99
6) Chloroethane	2.476	64	95376	11.485	ug/L		97
7) Trichlorofluoromethane	2.613	101	233329	7.352	ug/L		99
10) 1,1-Dichloroethene	3.122	96	156391	10.282	ug/L		94
11) Carbon disulfide	3.151	76	439047	10.941	ug/L		99
12) Freon-113	3.151	101	162110	9.505	ug/L		98
15) Methylene chloride	3.689	84	176300	10.148	ug/L		99
17) Acetone	3.738	43	24327	9.054	ug/L		91
18) trans-1,2-Dichloroethene	3.845	96	182178	10.120	ug/L		100
19) Methyl acetate	3.855	43	61733	11.312	ug/L		97
20) Methyl tert-butyl ether	3.933	73	304156	10.486	ug/L		95
23) 1,1-Dichloroethane	4.432	63	359381	11.022	ug/L		98
28) cis-1,2-Dichloroethene	4.960	96	200093	10.240	ug/L		96
30) Bromochloromethane	5.156	128	75343	8.473	ug/L		99
31) Cyclohexane	5.146	56	348382	12.284	ug/L		95
32) Chloroform	5.224	83	329380	9.197	ug/L		97
34) Carbon tetrachloride	5.352	117	240460	7.722	ug/L		99
37) 1,1,1-Trichloroethane	5.420	97	292726	8.461	ug/L		99
39) 2-Butanone	5.528	43	33677	10.591	ug/L		100
41) Benzene	5.792	78	751326	10.828	ug/L		99
44) 1,2-Dichloroethane	6.007	62	207627	8.785	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P01.d
 Acq On : 8 Nov 2017 8:53 pm
 Operator : VOA105:AD
 Sample : WG1061312-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 09 07:13:14 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Methyl cyclohexane	6.369	83	272368	10.879	ug/L	98
48) Trichloroethene	6.388	95	197573	9.086	ug/L	97
51) 1,2-Dichloropropane	6.946	63	191605	12.066	ug/L	93
54) Bromodichloromethane	7.014	83	220823	8.776	ug/L	100
57) 1,4-Dioxane	7.230	88	31301	485.328	ug/L	97
58) cis-1,3-Dichloropropene	7.699	75	246587	8.934	ug/L	93
61) Toluene	7.963	92	483055	11.184	ug/L	97
62) 4-Methyl-2-pentanone	8.403	58	25519	11.834	ug/L	90
63) Tetrachloroethene	8.413	166	203814	8.537	ug/L	93
65) trans-1,3-Dichloropropene	8.452	75	191929	9.333	ug/L	93
68) 1,1,2-Trichloroethane	8.648	83	107193	11.267	ug/L	98
69) Chlorodibromomethane	8.853	129	119181	8.644	ug/L	97
71) 1,2-Dibromoethane	9.137	107	99063	10.155	ug/L	100
72) 2-Hexanone	9.422	43	41719	9.699	ug/L	91
73) Chlorobenzene	9.784	112	505102	10.207	ug/L	96
74) Ethylbenzene	9.813	91	924656	11.163	ug/L	100
76) p/m Xylene	9.999	106	694077	22.152	ug/L	98
77) o Xylene	10.528	106	637936	21.096	ug/L	97
78) Styrene	10.597	104	1016087	20.849	ug/L	95
80) Bromoform	10.626	173	54973	8.543	ug/L	97
82) Isopropylbenzene	10.901	105	852815	11.682	ug/L	100
87) 1,1,2,2-Tetrachloroethane	11.469	83	103005	12.784	ug/L	100
100) 1,3-Dichlorobenzene	12.341	146	342276	10.587	ug/L	99
101) 1,4-Dichlorobenzene	12.429	146	344702	10.169	ug/L	99
104) 1,2-Dichlorobenzene	12.850	146	280258	10.526	ug/L	98
106) 1,2-Dibromo-3-chloropr...	13.634	155	8290	8.011	ug/L	94
109) 1,2,4-Trichlorobenzene	14.251	180	114471	10.118	ug/L	98
111) 1,2,3-Trichlorobenzene	14.711	180	67155	10.255	ug/L	99

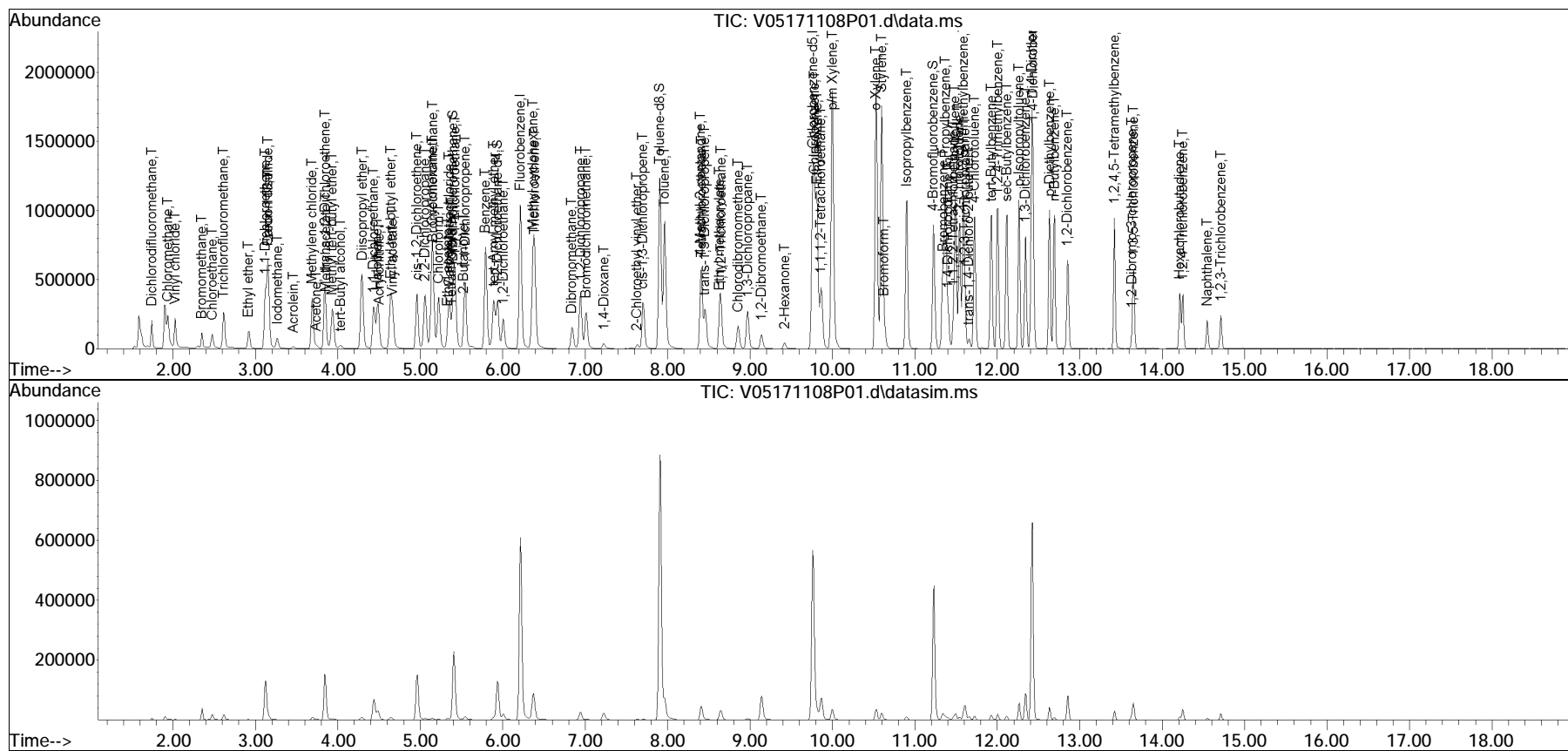
(#) = qualifier out of range (m) = manual integration (+) = signals summed

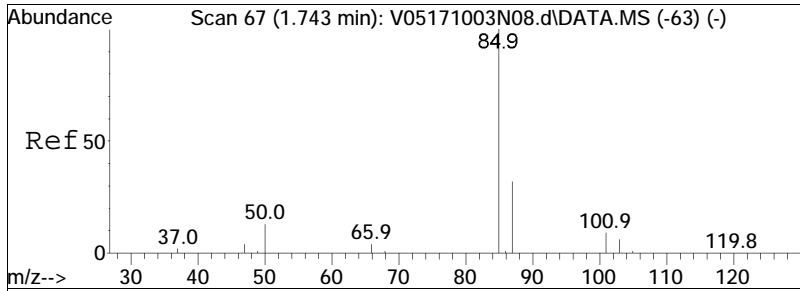
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P01.d
 Acq On : 8 Nov 2017 8:53 pm
 Operator : VOA105:AD
 Sample : WG1061312-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 09 07:13:14 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

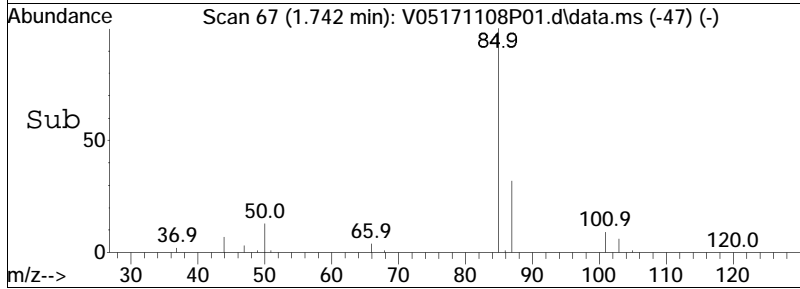
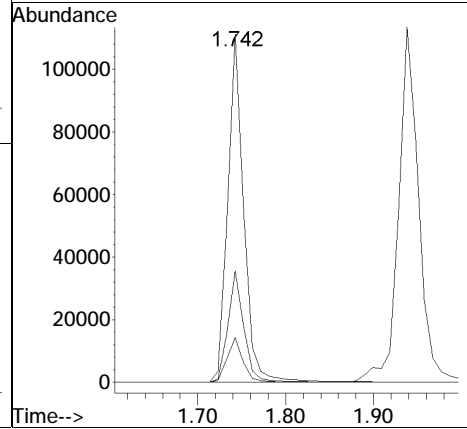
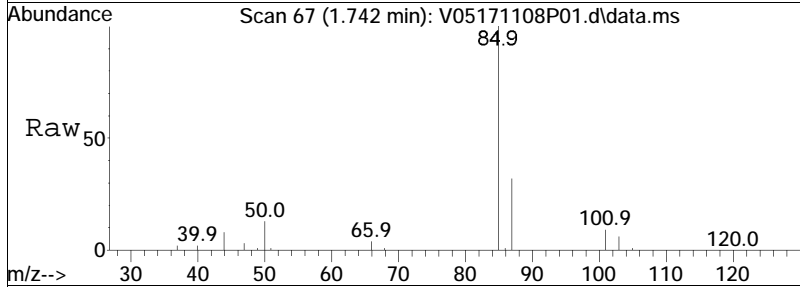
Sub List : 8260-Curve - Megamix plus Diox

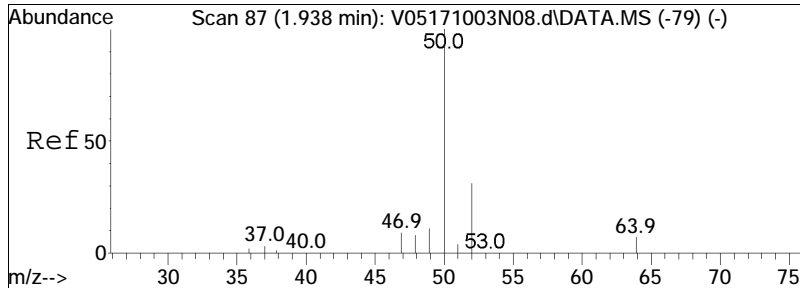




#2
 Dichlorodifluoromethane
 Concen: 8.29 ug/L
 RT: 1.742 min Scan# 67
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

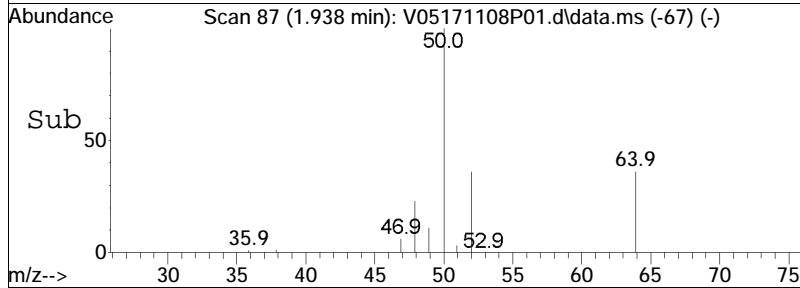
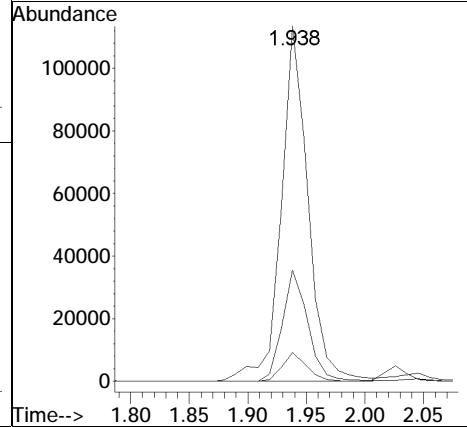
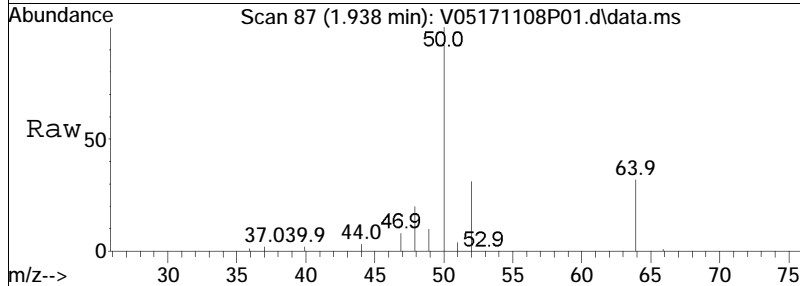
Tgt Ion	Resp	Lower	Upper
85	141598		
85	100		
87	31.7	21.3	44.1
50	12.8	8.7	18.1

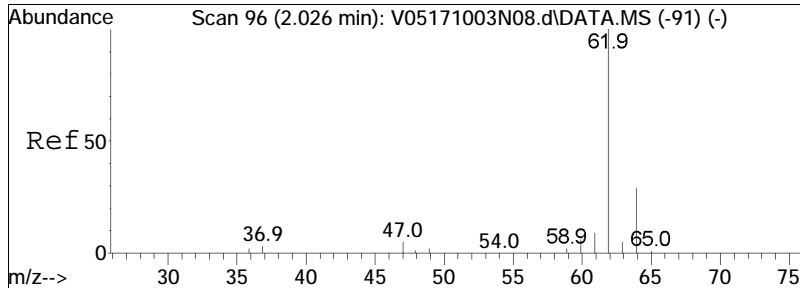




#3
 Chloromethane
 Concen: 11.79 ug/L
 RT: 1.938 min Scan# 87
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

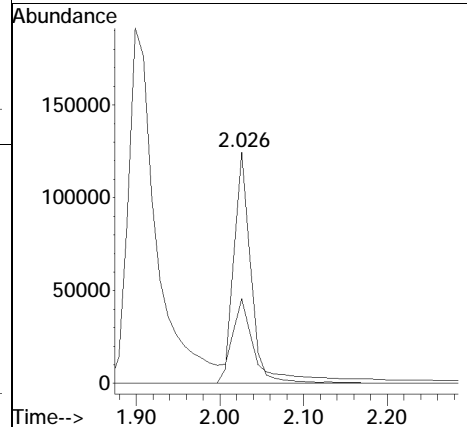
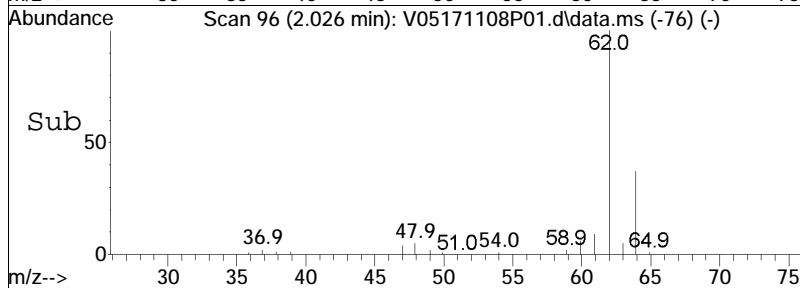
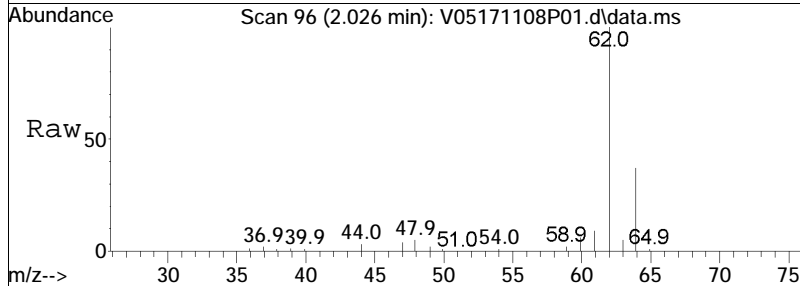
Tgt Ion	Resp	Lower	Upper
50	181005		
52	29.8	11.4	51.4
47	7.6	0.0	28.0

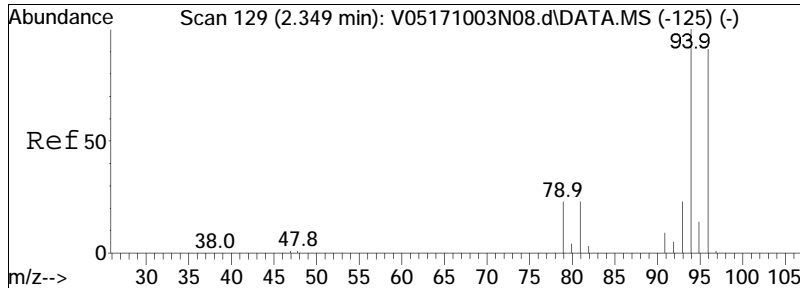




#4
 Vinyl chloride
 Concen: 12.40 ug/L
 RT: 2.026 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

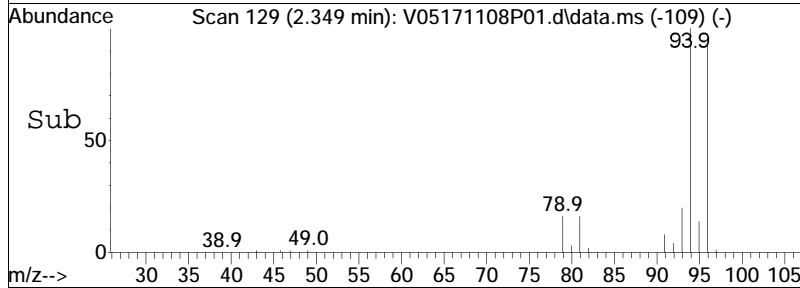
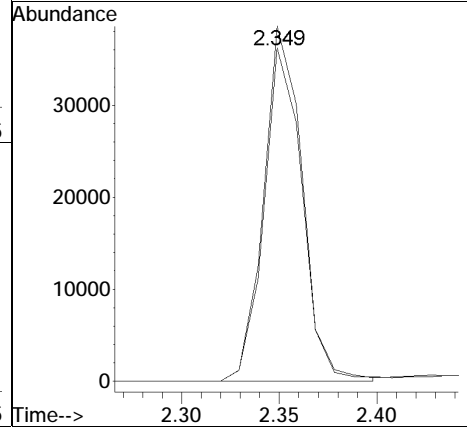
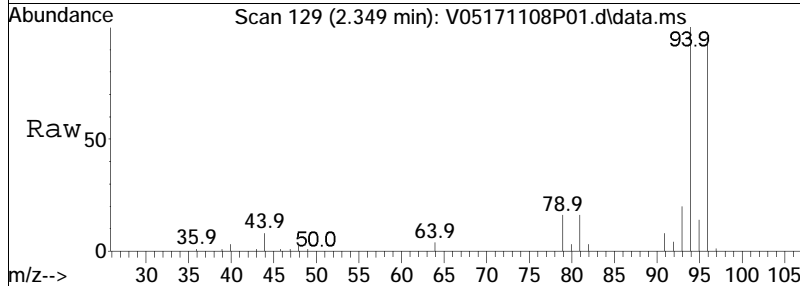
Tgt Ion: 62 Resp: 176398
 Ion Ratio Lower Upper
 62 100
 64 46.2 13.8 53.8

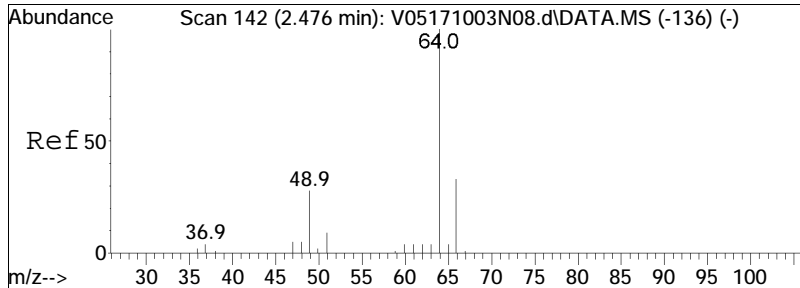




#5
 Bromomethane
 Concen: 6.99 ug/L
 RT: 2.349 min Scan# 129
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

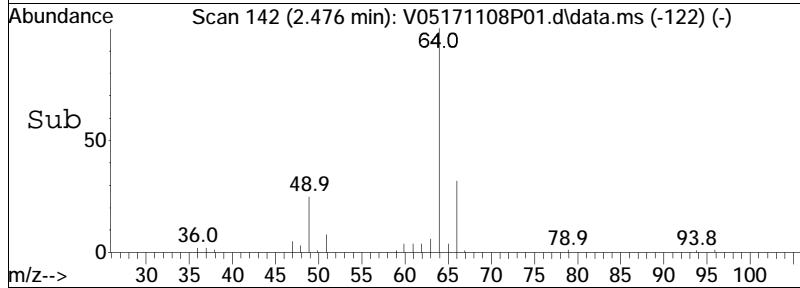
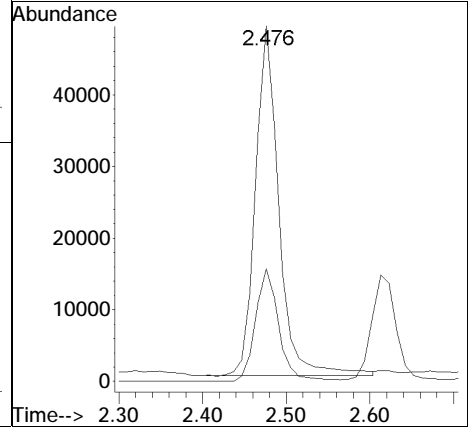
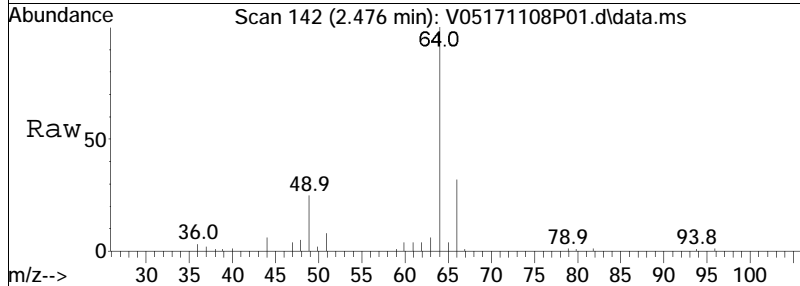
Tgt Ion: 94 Resp: 53078
 Ion Ratio Lower Upper
 94 100
 96 93.7 73.1 113.1

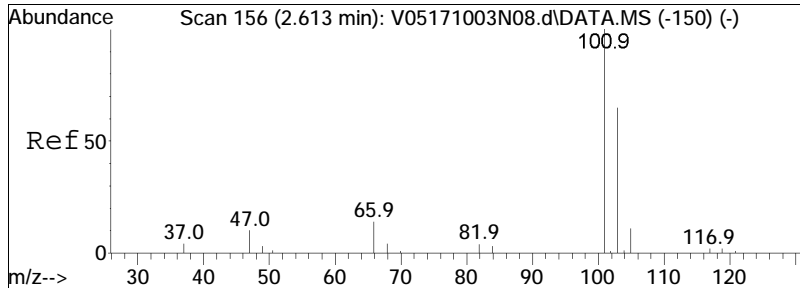




#6
 Chloroethane
 Concen: 11.49 ug/L
 RT: 2.476 min Scan# 142
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

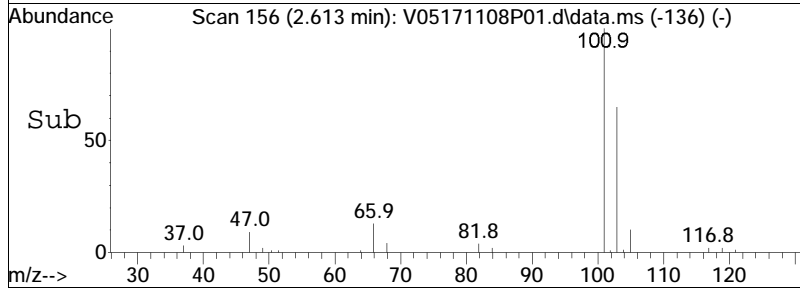
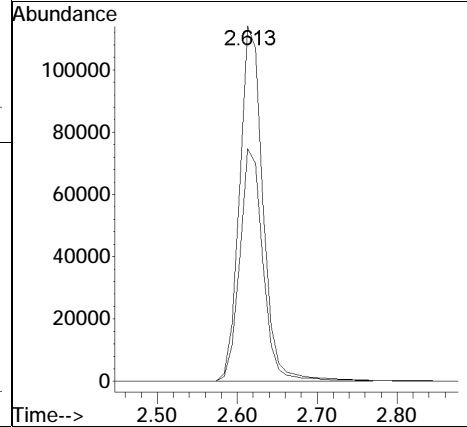
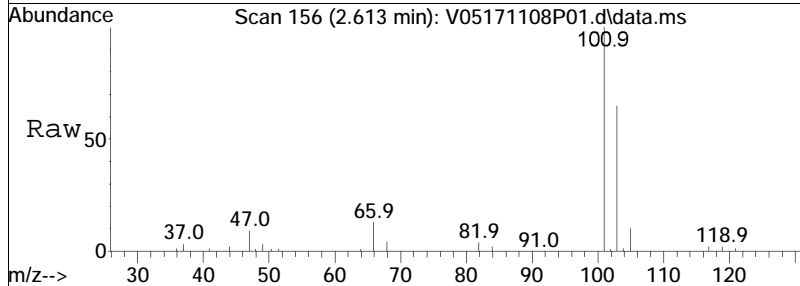
Tgt Ion: 64 Resp: 95376
 Ion Ratio Lower Upper
 64 100
 66 31.9 13.7 53.7

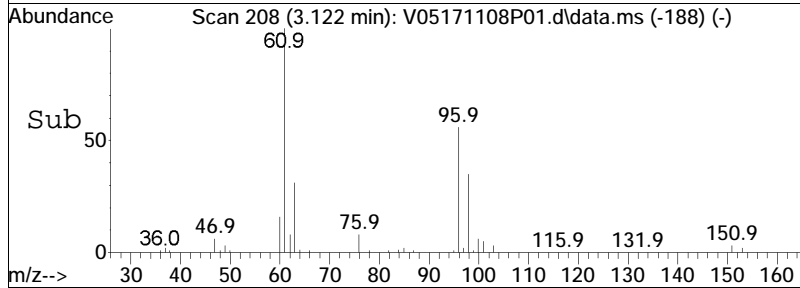
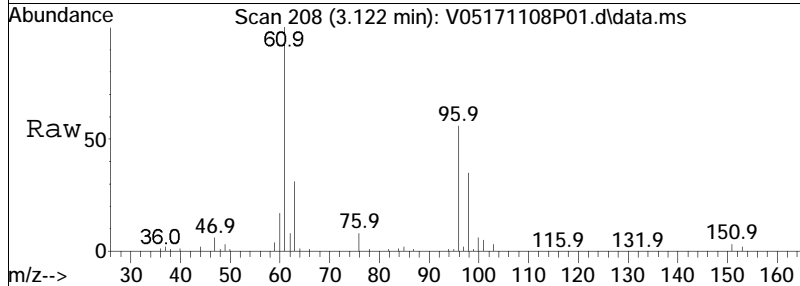
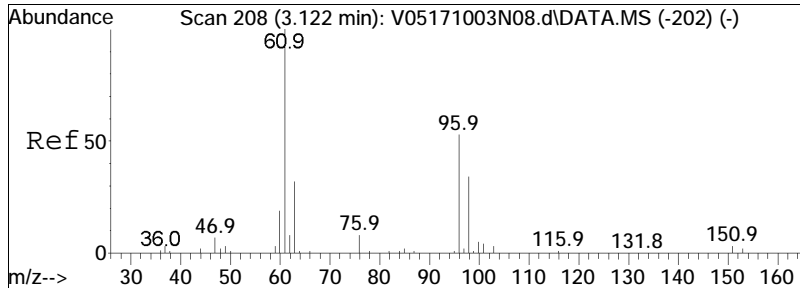




#7
 Trichlorofluoromethane
 Concen: 7.35 ug/L
 RT: 2.613 min Scan# 156
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

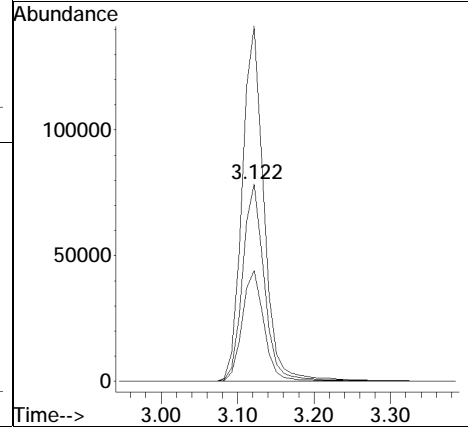
Tgt Ion	Resp	Lower	Upper
101	233329		
101	100		
103	65.2	52.6	79.0

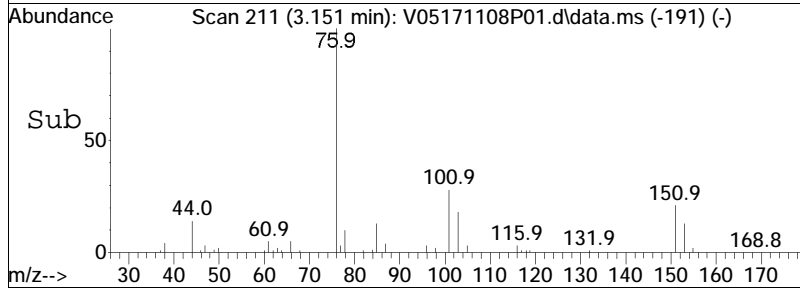
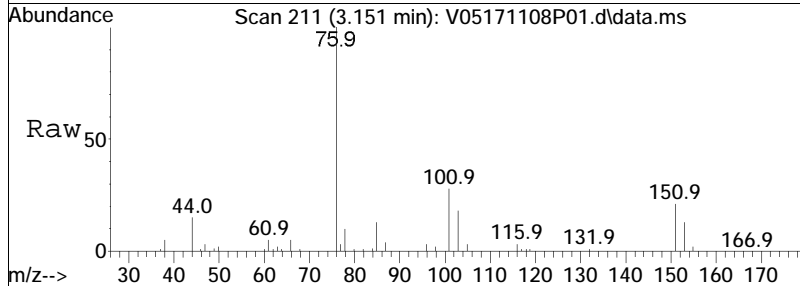
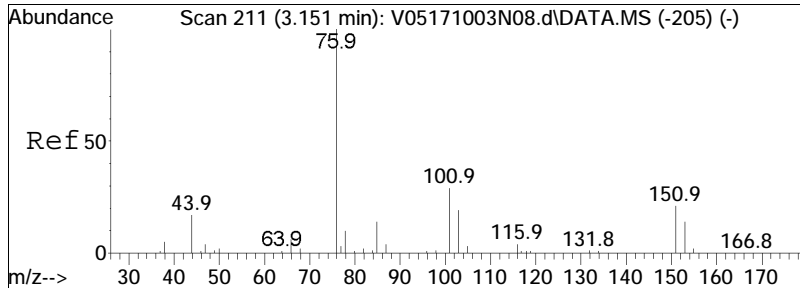




#10
 1,1-Dichloroethene
 Concen: 10.28 ug/L
 RT: 3.122 min Scan# 208
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

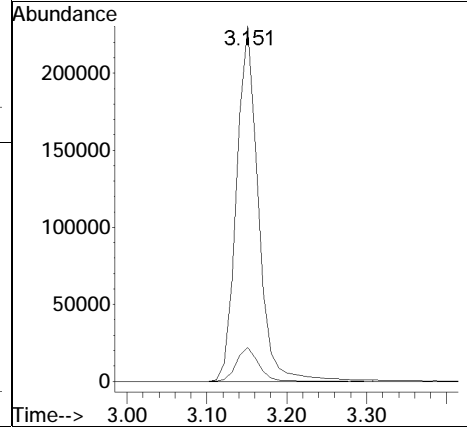
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
96	100		
61	179.3	151.0	226.4
63	56.5	47.7	71.5

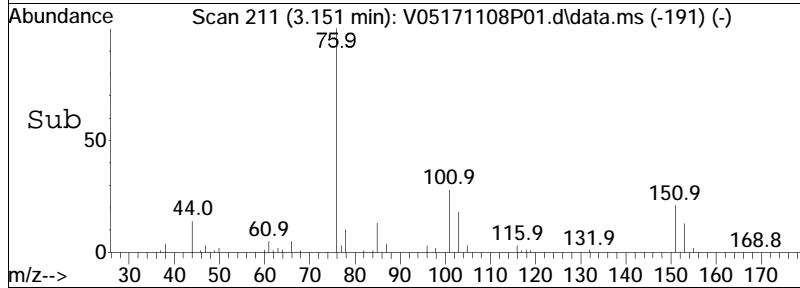
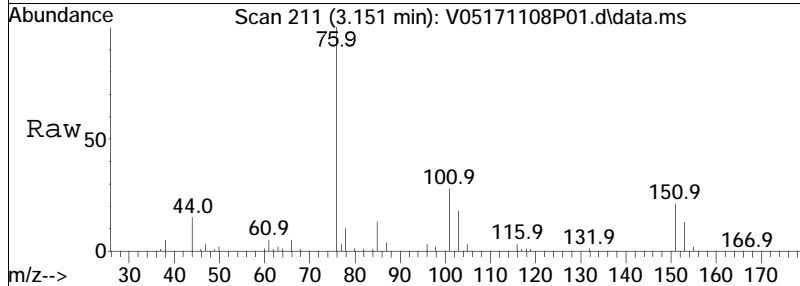
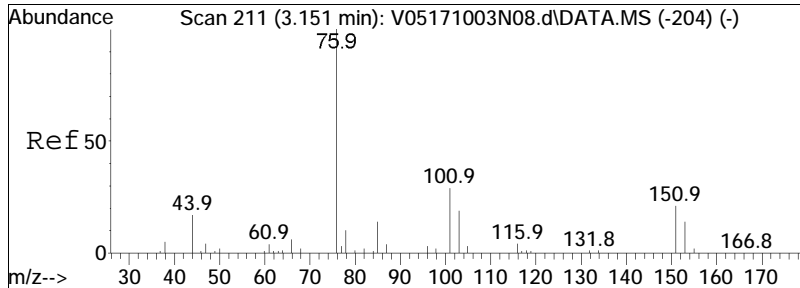




#11
 Carbon disulfide
 Concen: 10.94 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

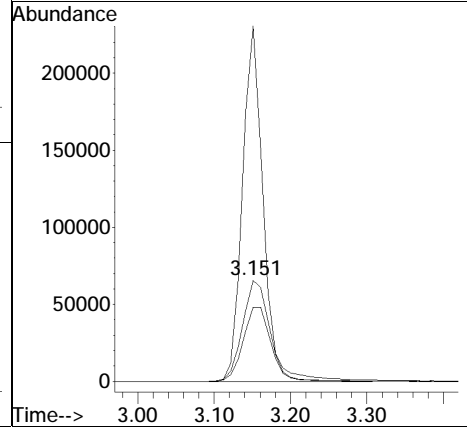
Tgt Ion	Resp	Lower	Upper
76	439047	6.7	13.9
78	9.9		

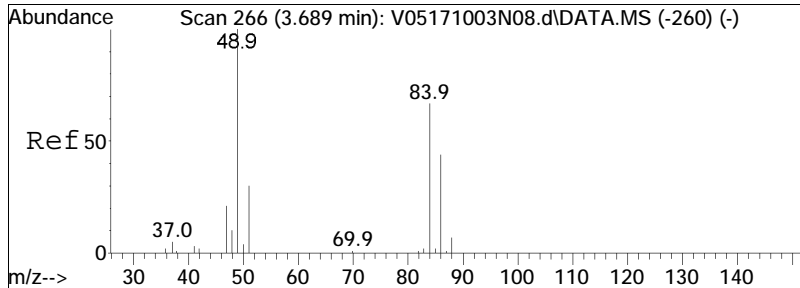




#12
 Freon-113
 Concen: 9.50 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

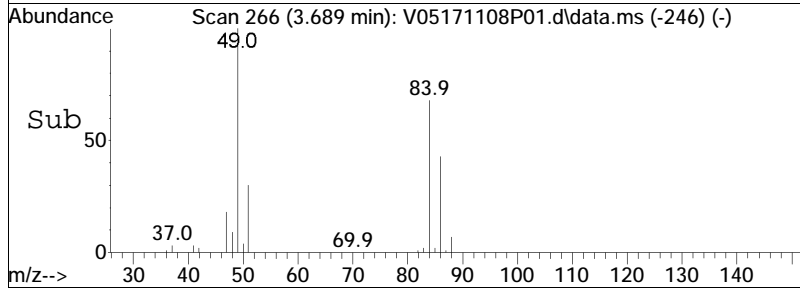
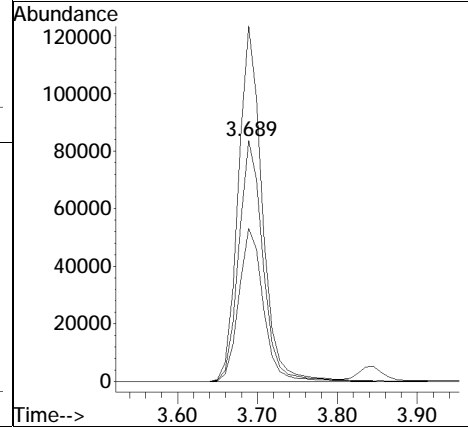
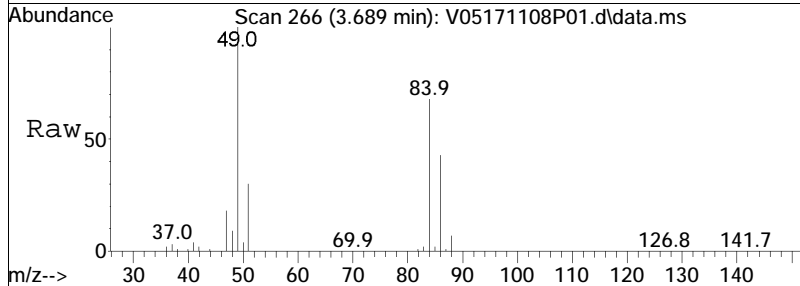
Tgt Ion	Resp	Lower	Upper
101	162110		
101	100		
151	75.7	59.2	88.8
76	270.8	213.0	319.4

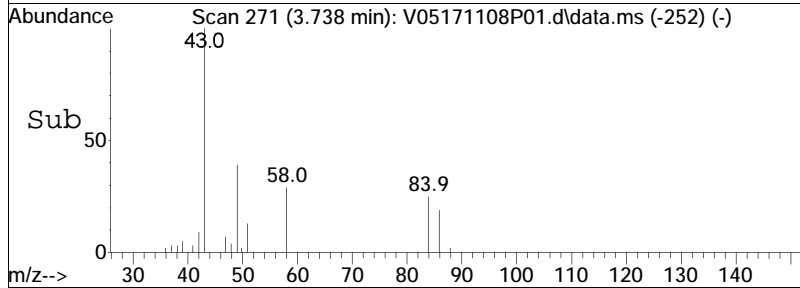
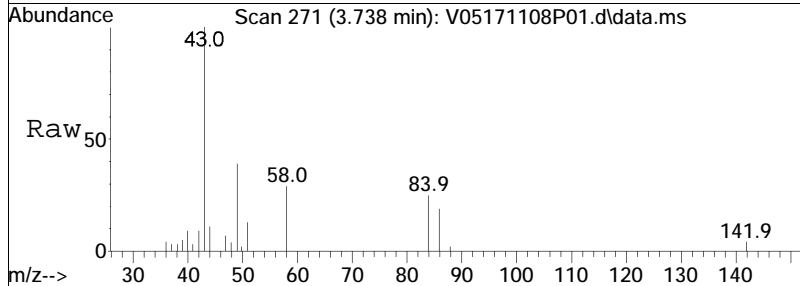
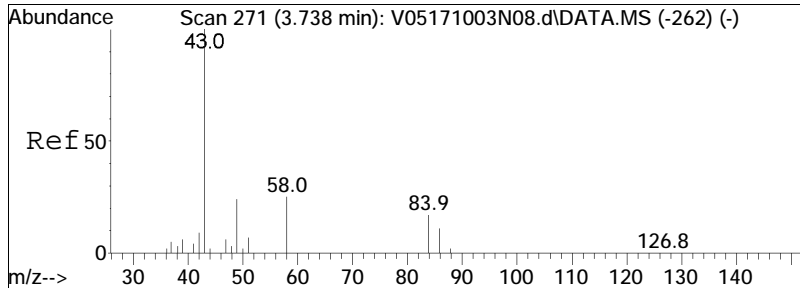




#15
 Methylene chloride
 Concen: 10.15 ug/L
 RT: 3.689 min Scan# 266
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

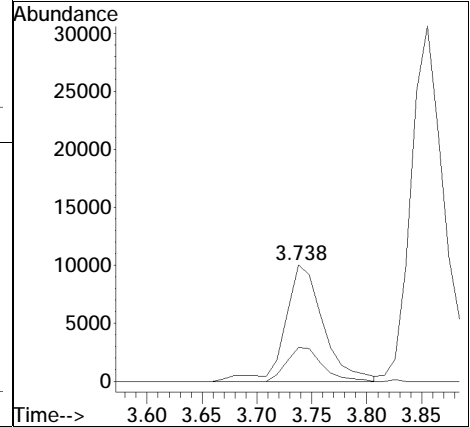
Tgt Ion:	84	Resp:	176300
Ion Ratio	Lower	Upper	
84	100		
86	64.3	41.9	86.9
49	144.4	95.1	197.5

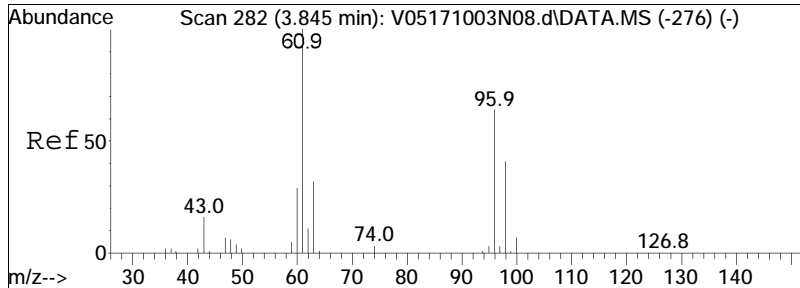




#17
 Acetone
 Concen: 9.05 ug/L
 RT: 3.738 min Scan# 271
 Delta R.T. -0.010 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

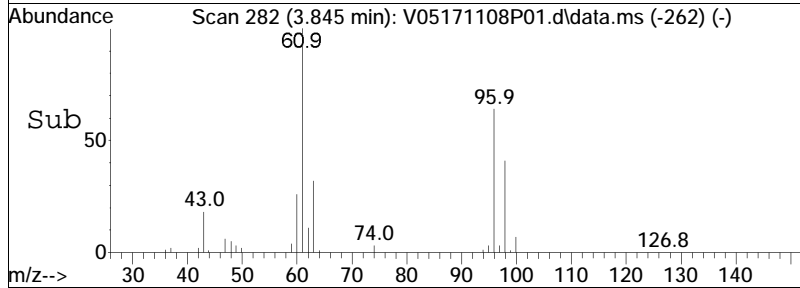
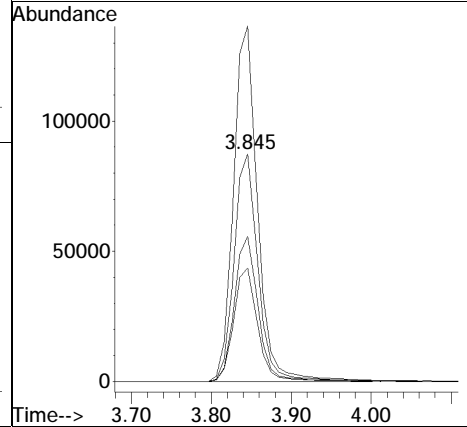
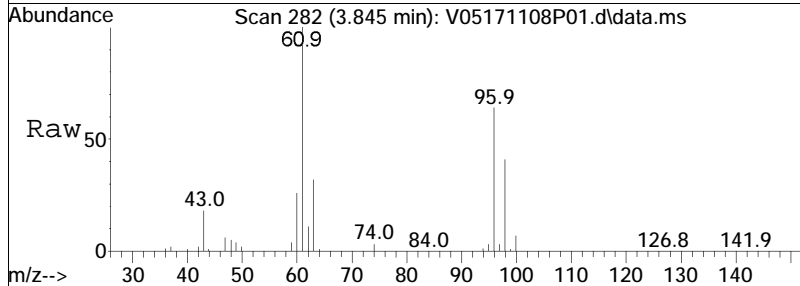
Tgt Ion:	43	58	Resp:	24327	27.3	18.5	27.7
Ion Ratio	100		Lower	Upper			

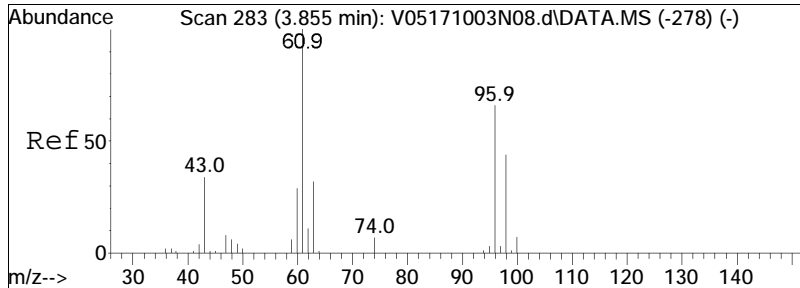




#18
 trans-1,2-Dichloroethene
 Concen: 10.12 ug/L
 RT: 3.845 min Scan# 282
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

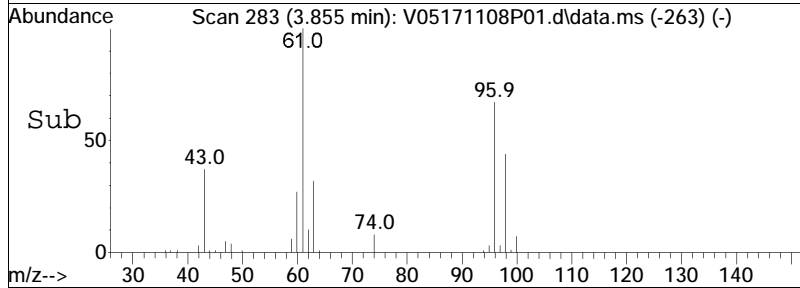
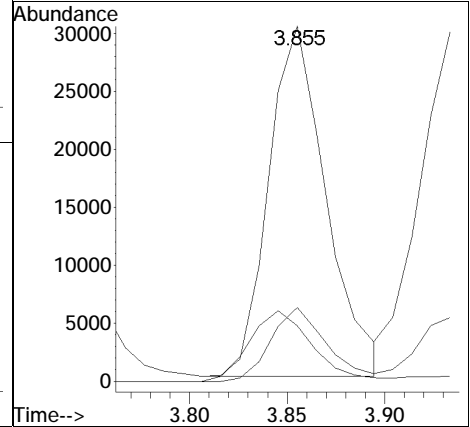
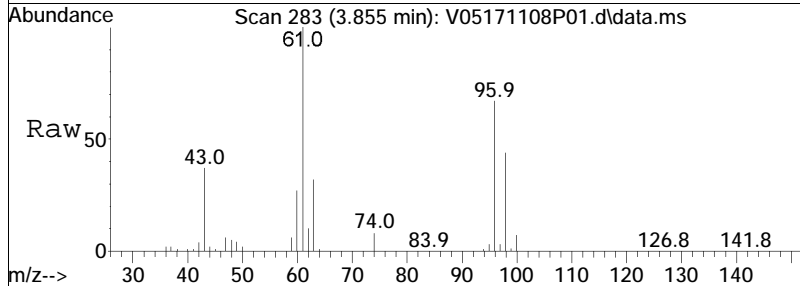
Tgt Ion	Resp	Lower	Upper
96	182178		
61	157.3	102.0	211.8
98	63.7	41.9	87.1
63	50.2	32.6	67.8

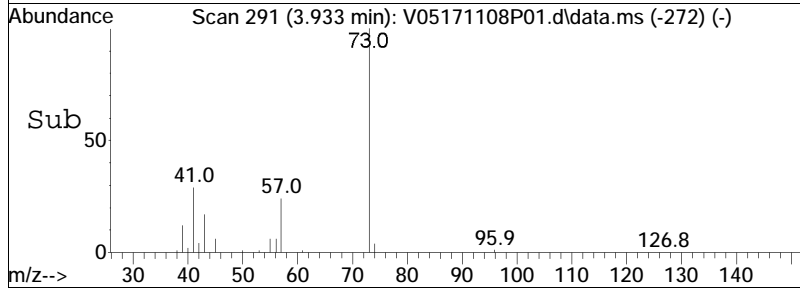
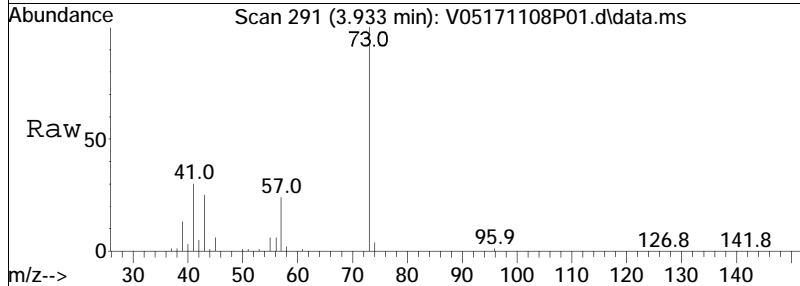
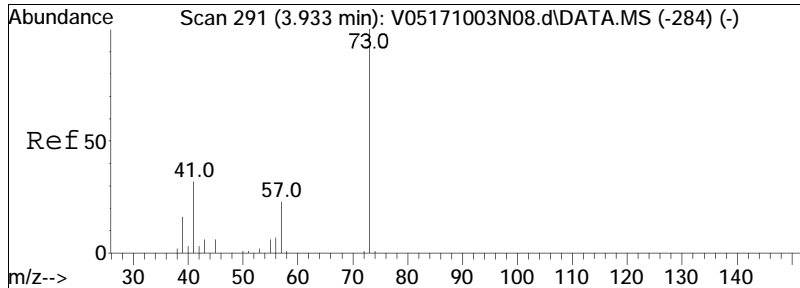




#19
 Methyl acetate
 Concen: 11.31 ug/L
 RT: 3.855 min Scan# 283
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

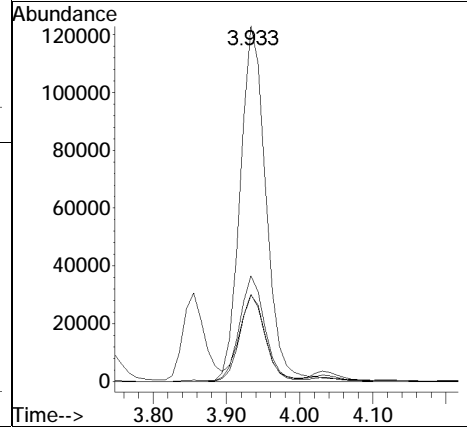
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
43	100		
74	20.6	15.3	22.9
59	22.1	18.6	28.0

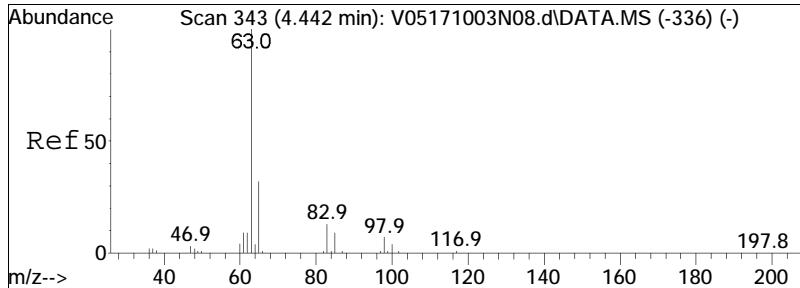




#20
 Methyl tert-butyl ether
 Concen: 10.49 ug/L
 RT: 3.933 min Scan# 291
 Delta R.T. -0.010 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

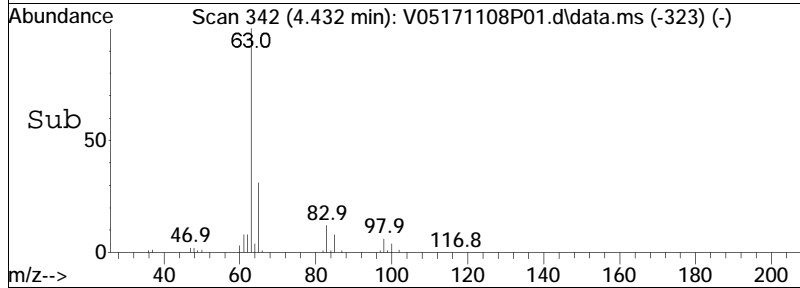
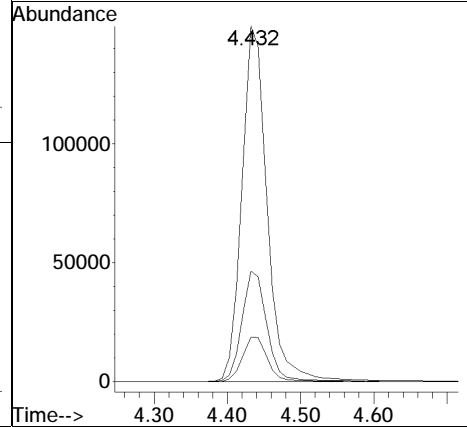
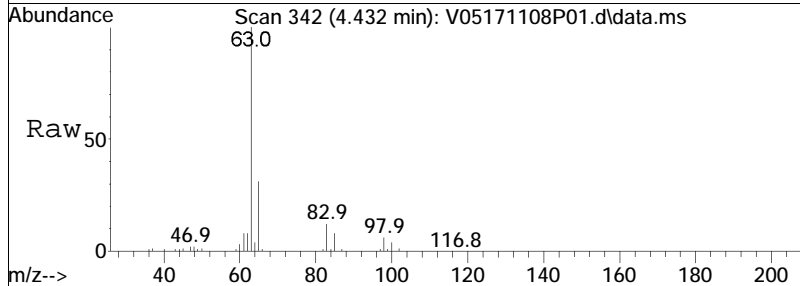
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
73	100		
57	23.8	14.3	29.7
43	23.4	16.8	35.0
41	28.5	20.9	43.3

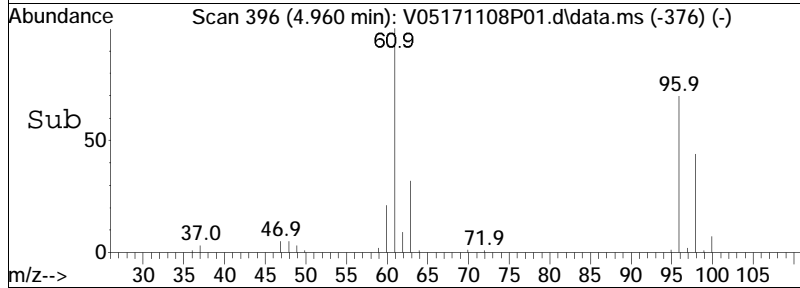
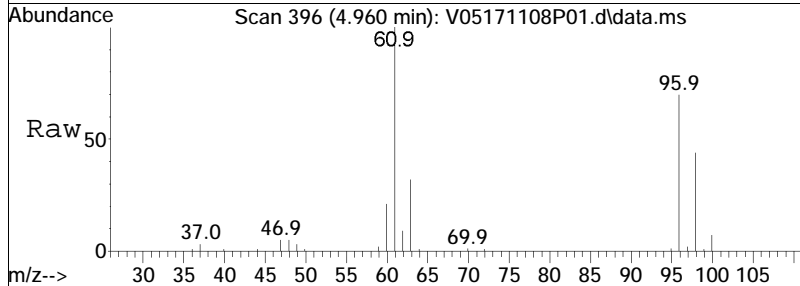
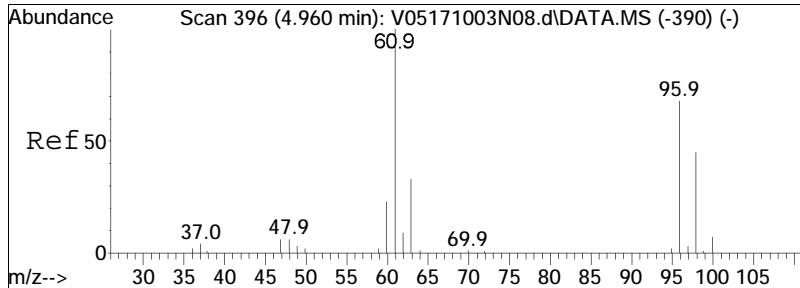




#23
 1,1-Dichloroethane
 Concen: 11.02 ug/L
 RT: 4.432 min Scan# 342
 Delta R.T. -0.010 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

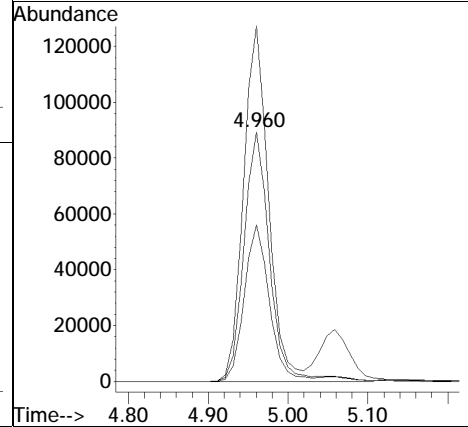
Tgt Ion	Resp	Lower	Upper
63	359381		
63	100		
65	30.5	11.6	51.6
83	12.3	0.0	33.0

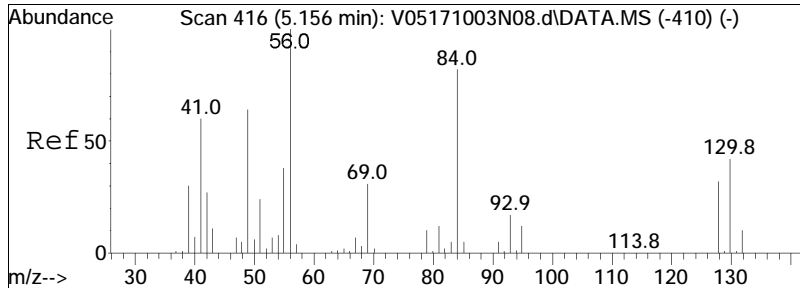




#28
 cis-1,2-Dichloroethene
 Concen: 10.24 ug/L
 RT: 4.960 min Scan# 396
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

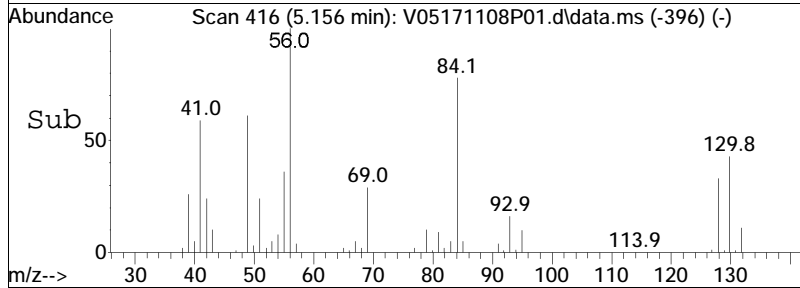
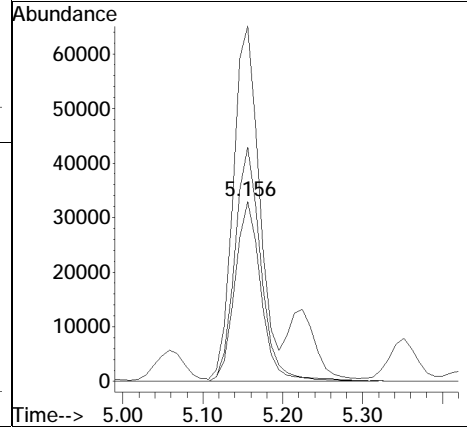
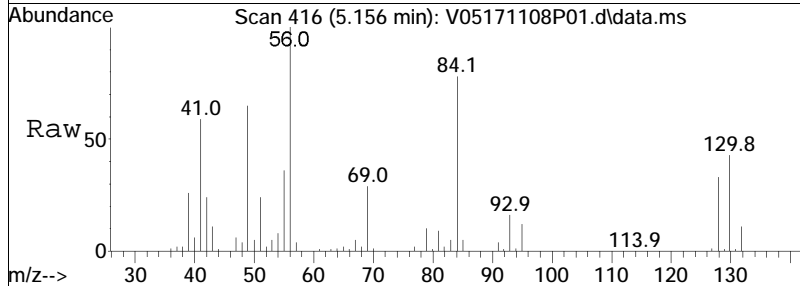
Tgt Ion:	96	Resp:	200093
Ion Ratio	Lower	Upper	
96	100		
61	138.0	113.7	170.5
98	61.0	51.2	76.8

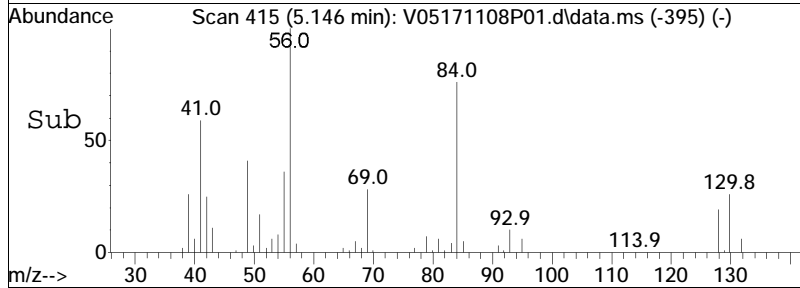
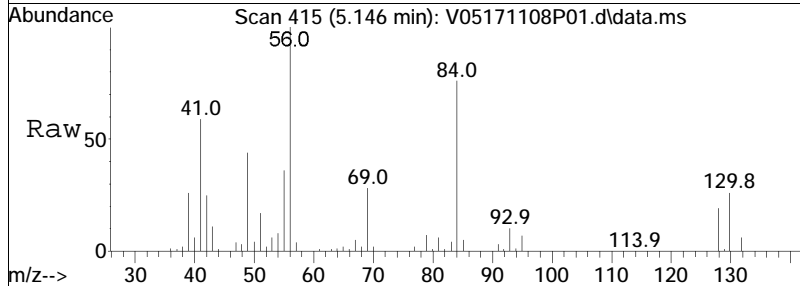
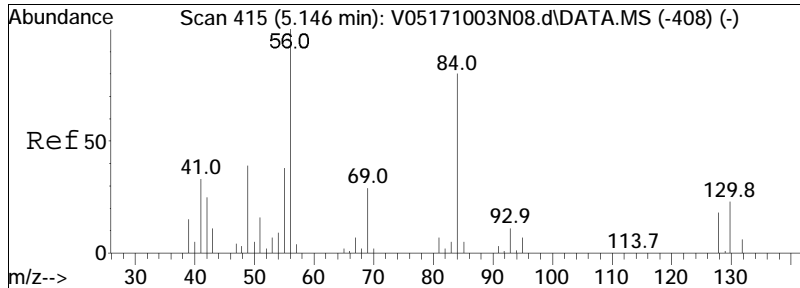




#30
 Bromochloromethane
 Concen: 8.47 ug/L
 RT: 5.156 min Scan# 416
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

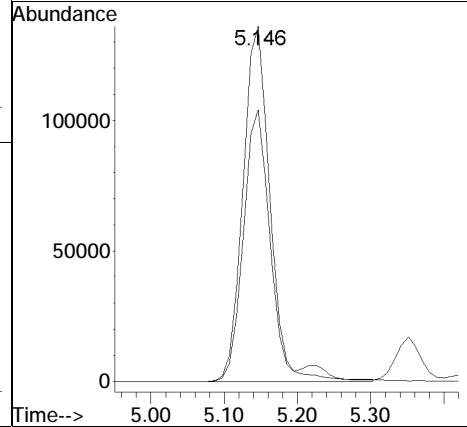
Tgt Ion	Resp	Lower	Upper
128	75343		
49	194.8	155.4	233.0
130	129.9	101.9	152.9

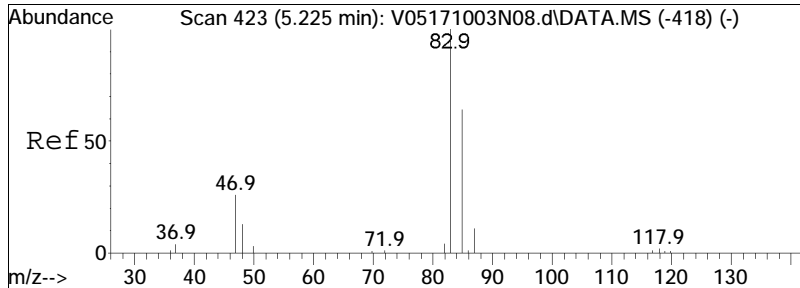




#31
 Cyclohexane
 Concen: 12.28 ug/L
 RT: 5.146 min Scan# 415
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

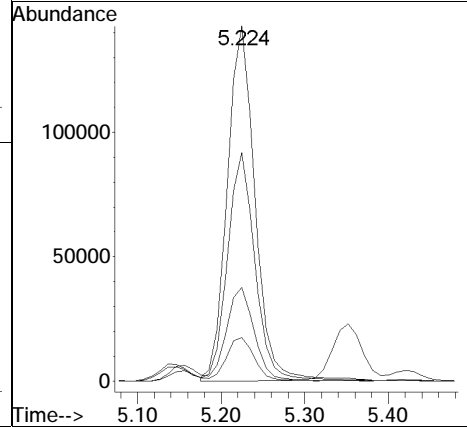
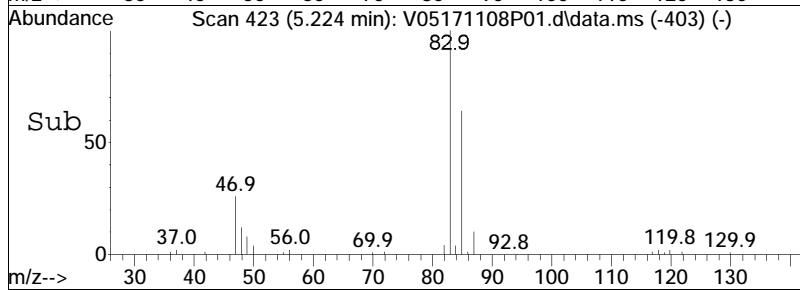
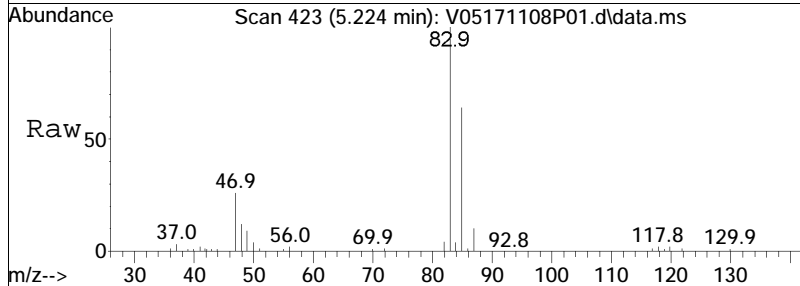
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
56	100		
84	74.1	51.3	106.5

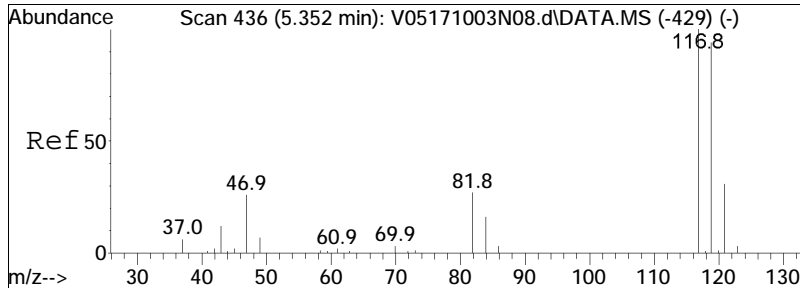




#32
 Chloroform
 Concen: 9.20 ug/L
 RT: 5.224 min Scan# 423
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

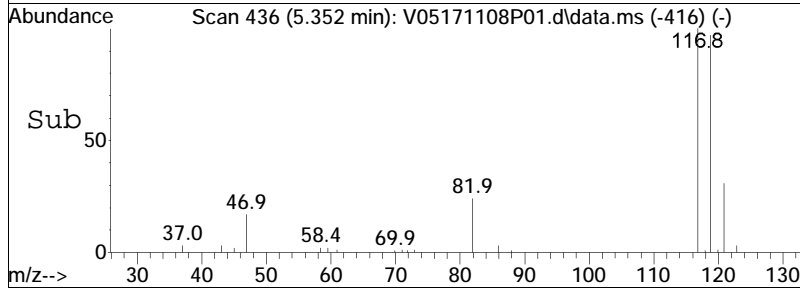
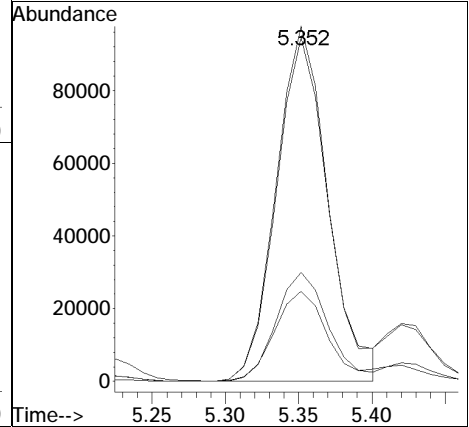
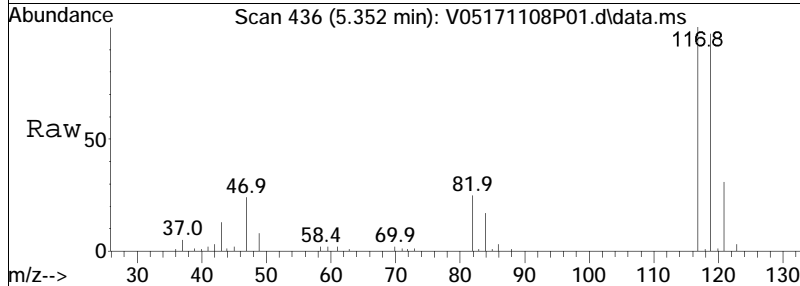
Tgt Ion	Resp	Lower	Upper
83	329380		
85	63.6	42.4	88.2
47	24.9	17.9	37.1
48	12.2	9.1	18.9

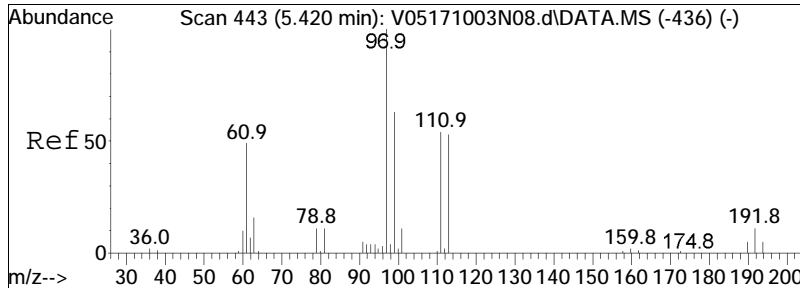




#34
 Carbon tetrachloride
 Concen: 7.72 ug/L
 RT: 5.352 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

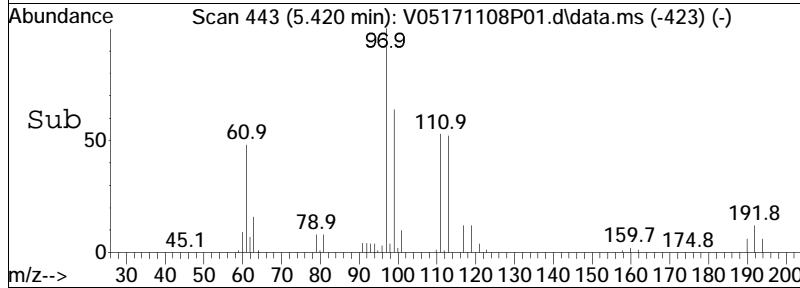
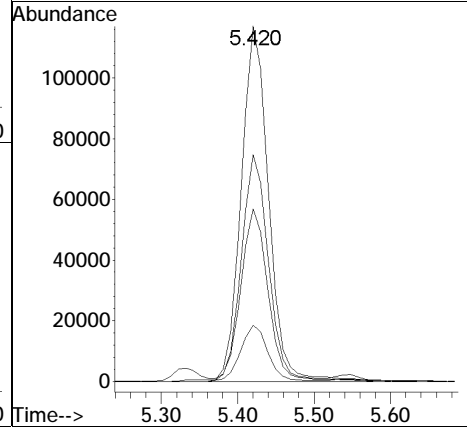
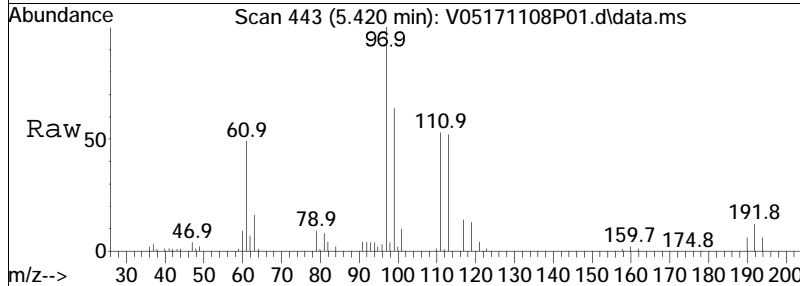
Tgt Ion	Resp	Lower	Upper
117	100		
119	96.7	62.2	129.2
121	30.9	20.2	41.9
82	25.2	17.6	36.6

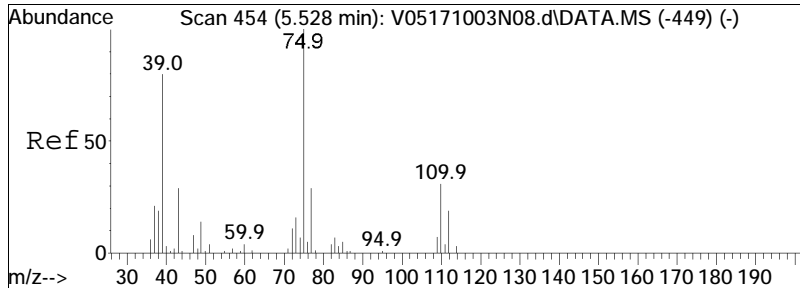




#37
 1,1,1-Trichloroethane
 Concen: 8.46 ug/L
 RT: 5.420 min Scan# 443
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

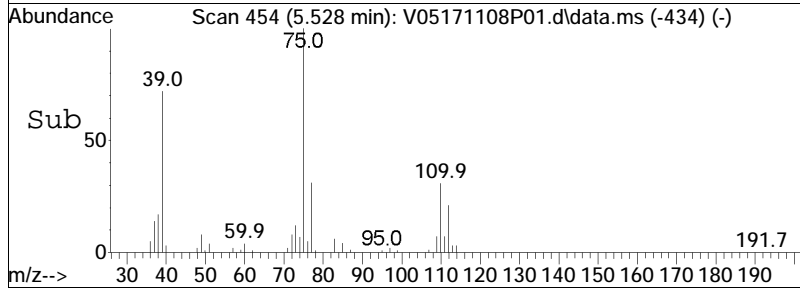
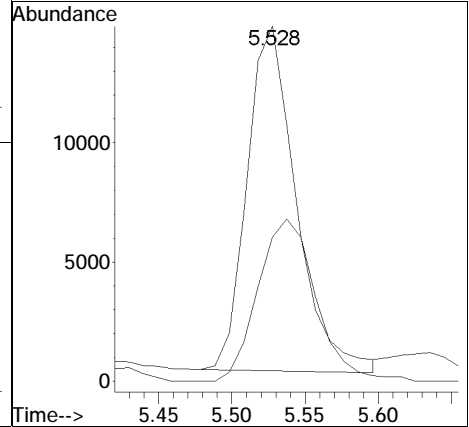
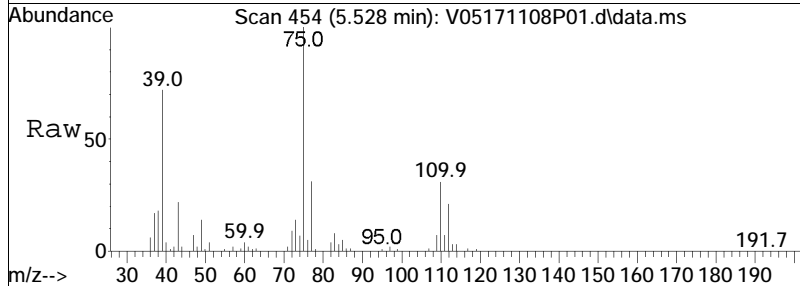
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
97	100		
99	63.4	42.3	87.9
61	47.7	31.3	64.9
63	15.7	10.1	20.9

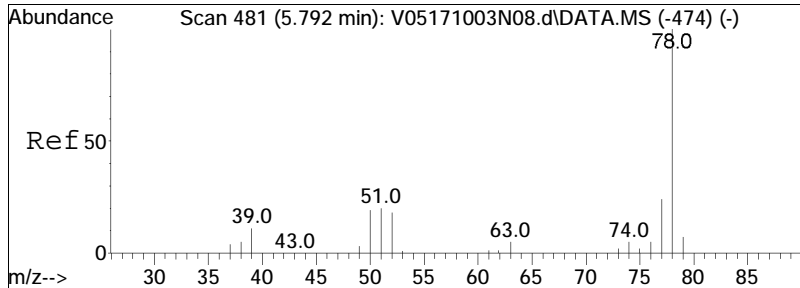




#39
 2-Butanone
 Concen: 10.59 ug/L
 RT: 5.528 min Scan# 454
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

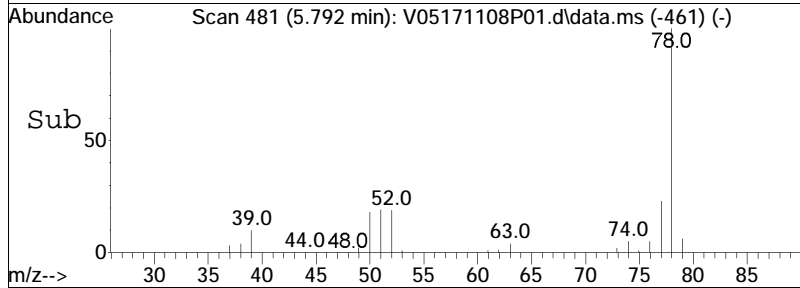
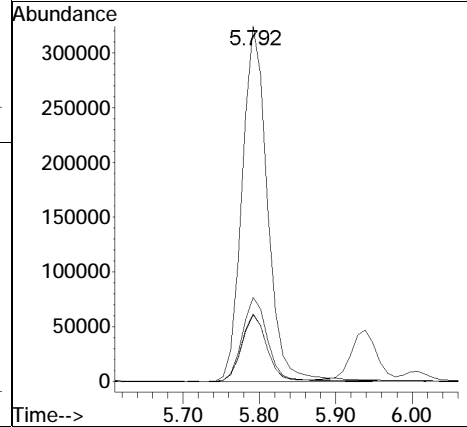
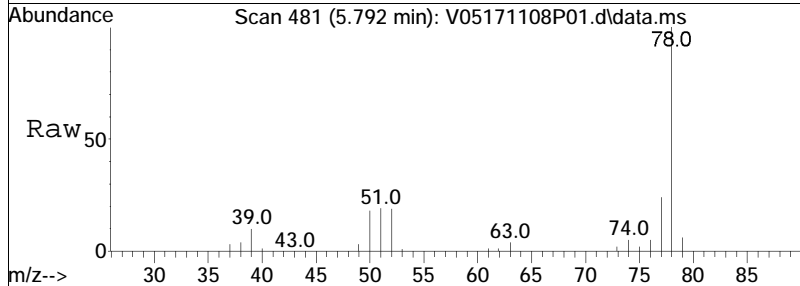
Tgt Ion: 43 Resp: 33677
 Ion Ratio Lower Upper
 43 100
 72 55.7 44.2 66.4

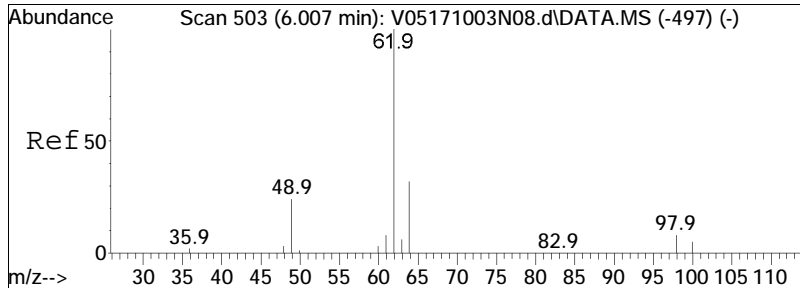




#41
 Benzene
 Concen: 10.83 ug/L
 RT: 5.792 min Scan# 481
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

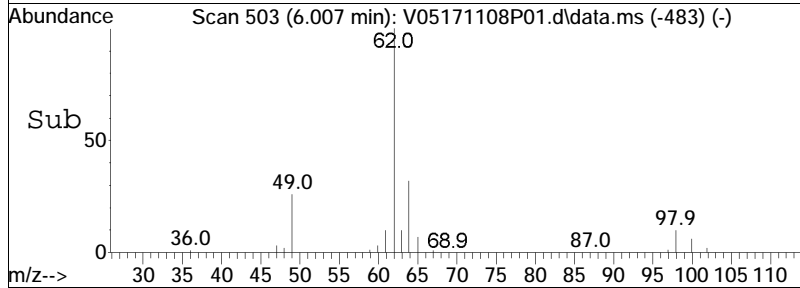
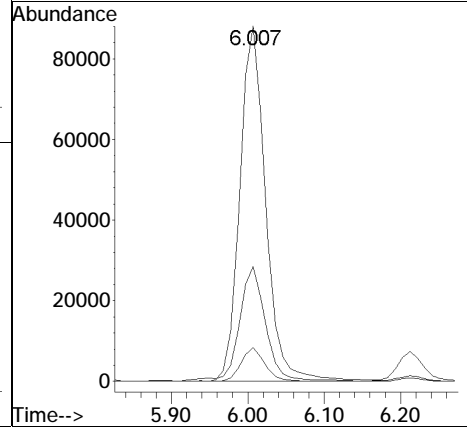
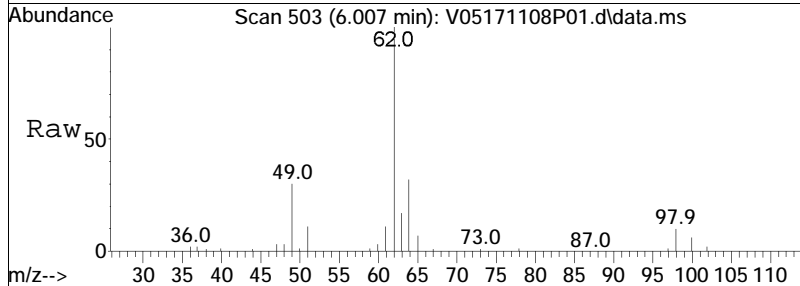
Tgt Ion	Resp	Lower	Upper
78	100		
77	23.6	15.3	31.9
51	18.6	12.5	25.9
52	18.4	11.4	23.6

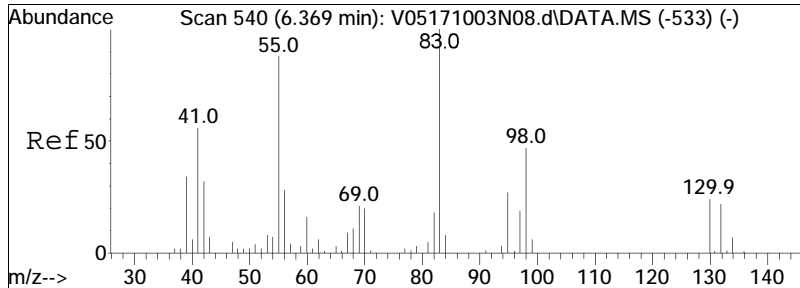




#44
 1,2-Dichloroethane
 Concen: 8.79 ug/L
 RT: 6.007 min Scan# 503
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

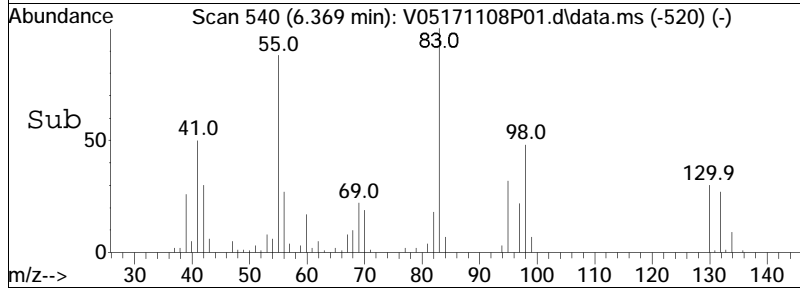
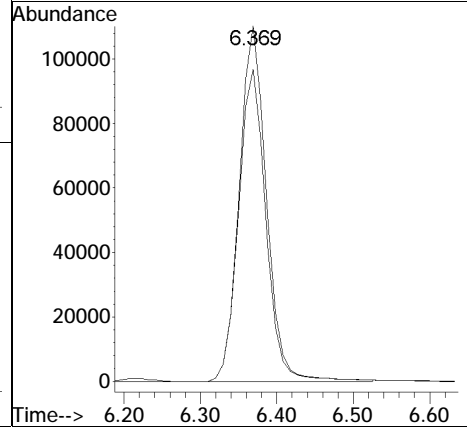
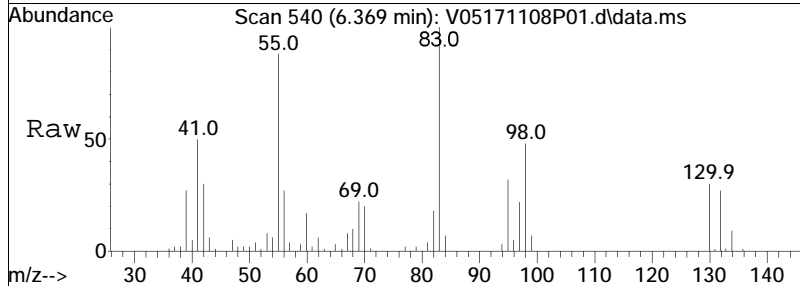
Tgt Ion	Resp	Lower	Upper
62	207627		
62	100		
64	32.9	13.1	53.1
98	8.7	0.0	27.8

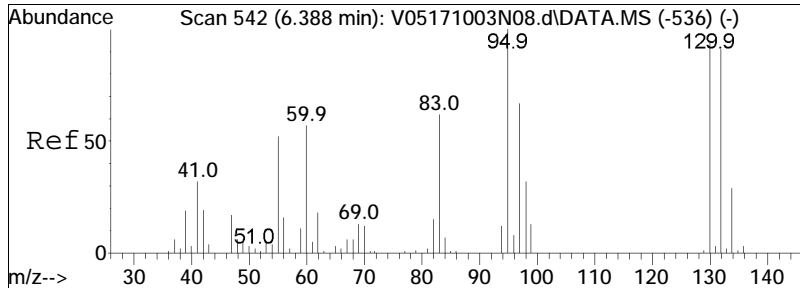




#47
 Methyl cyclohexane
 Concen: 10.88 ug/L
 RT: 6.369 min Scan# 540
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

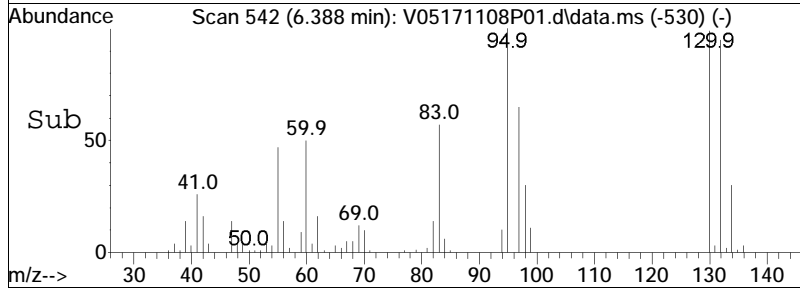
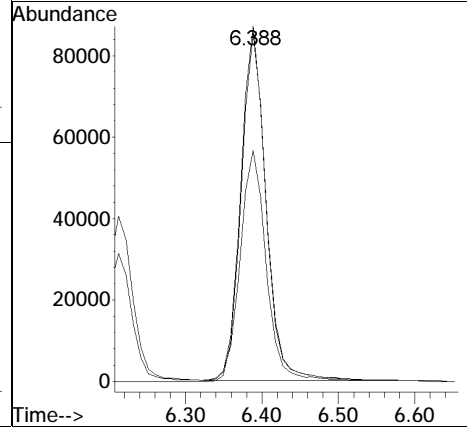
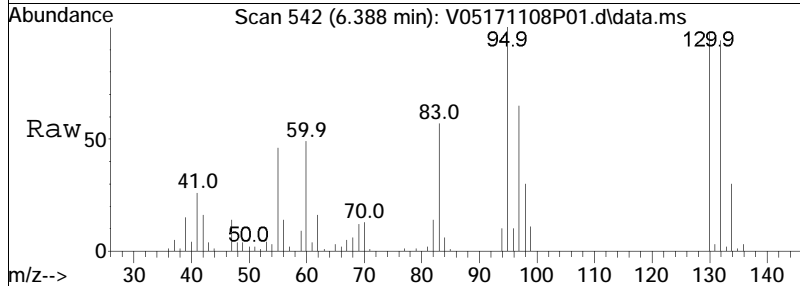
Tgt Ion	Resp	Lower	Upper
83	100		
55	88.7	69.5	104.3

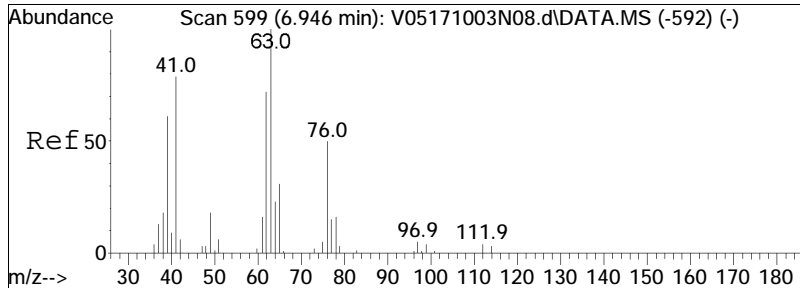




#48
 Trichloroethene
 Concen: 9.09 ug/L
 RT: 6.388 min Scan# 542
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

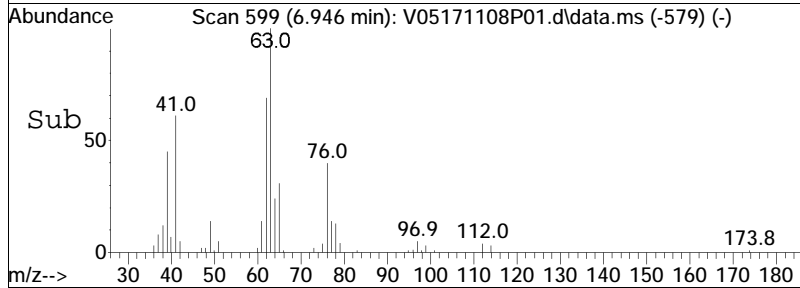
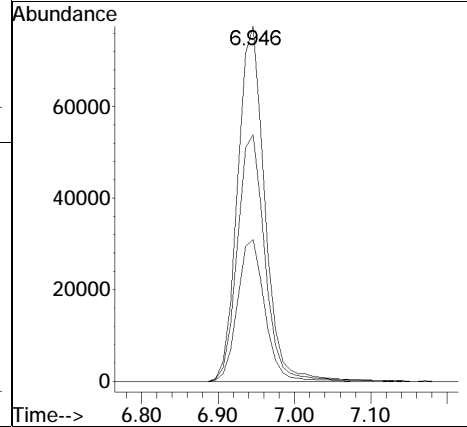
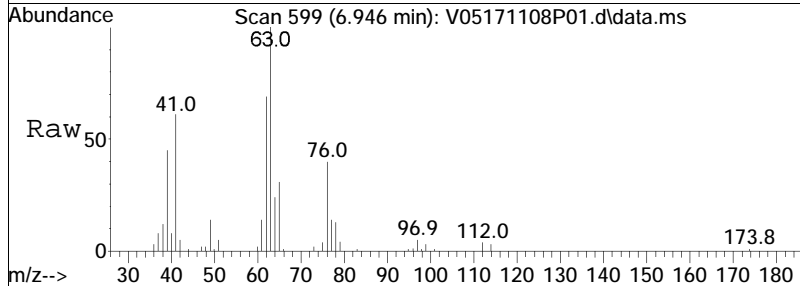
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
95	100		
97	67.2	53.5	80.3
130	99.5	75.9	113.9

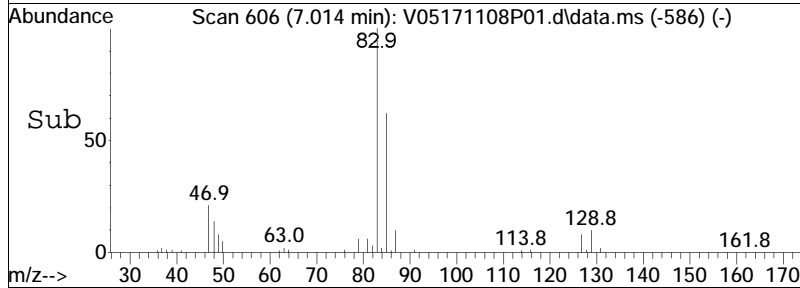
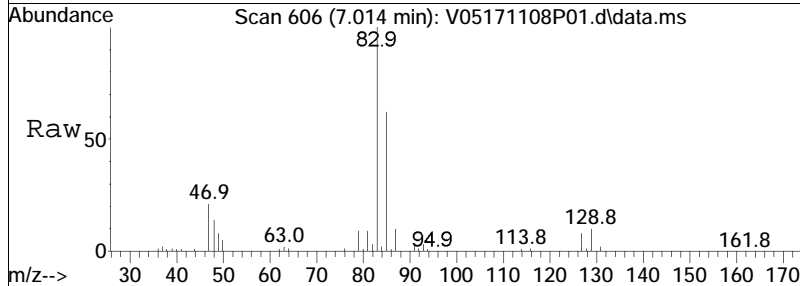
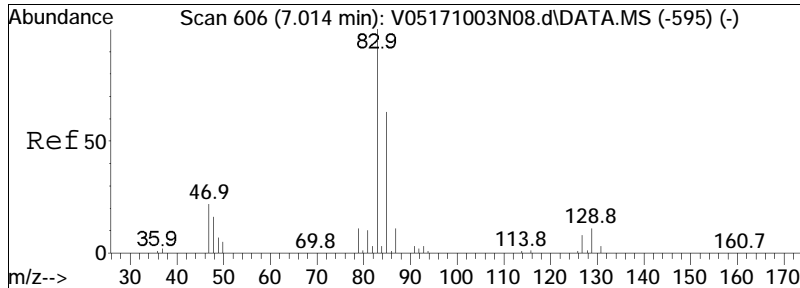




#51
 1,2-Dichloropropane
 Concen: 12.07 ug/L
 RT: 6.946 min Scan# 599
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

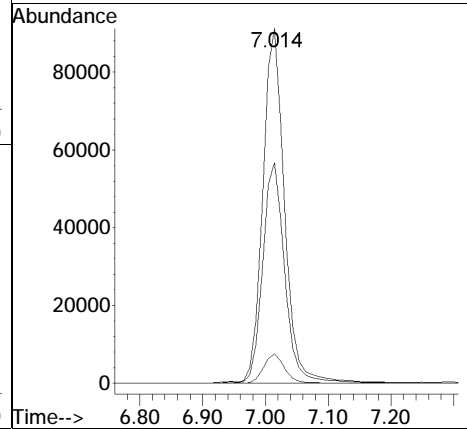
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
63	100		
62	70.4	57.4	86.2
76	40.2	39.8	59.6

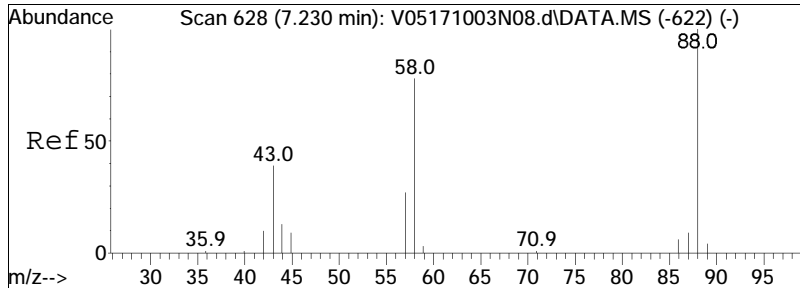




#54
 Bromodichloromethane
 Concen: 8.78 ug/L
 RT: 7.014 min Scan# 606
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

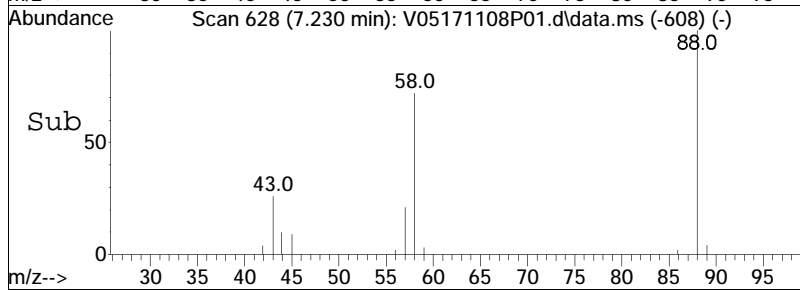
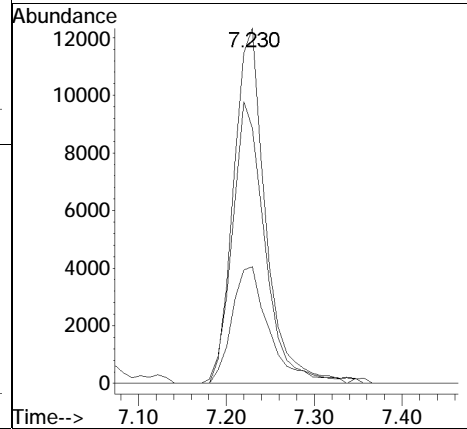
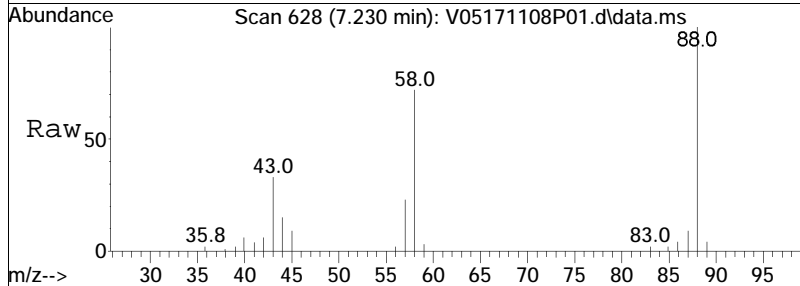
Tgt Ion	Resp	Lower	Upper
83	220823		
83	100		
85	63.1	50.3	75.5
127	8.1	6.6	9.8

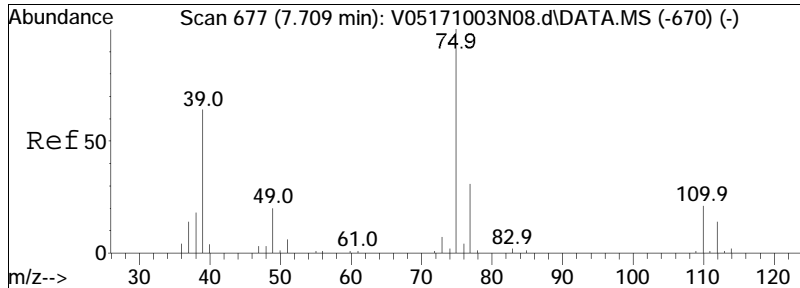




#57
 1,4-Dioxane
 Concen: 485.33 ug/L
 RT: 7.230 min Scan# 628
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

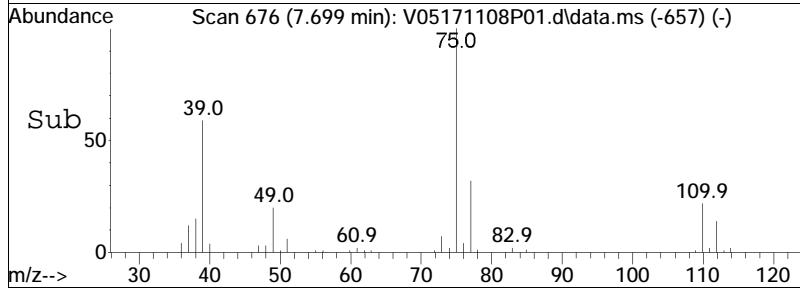
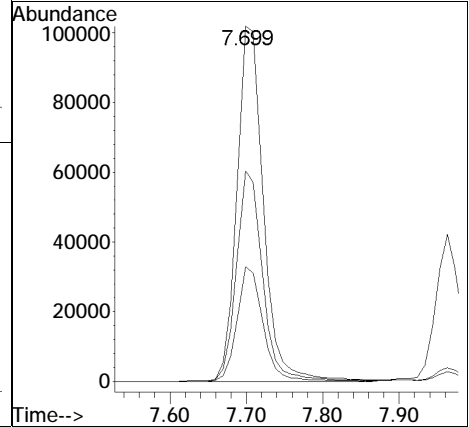
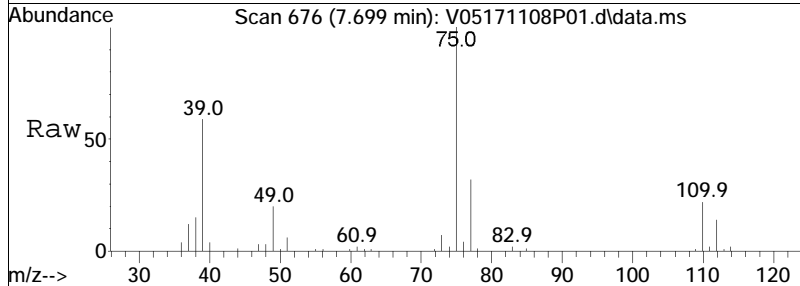
Tgt Ion:	88	Resp:	31301
Ion Ratio	Lower	Upper	
88	100		
58	80.8	61.5	92.3
43	38.6	30.5	45.7

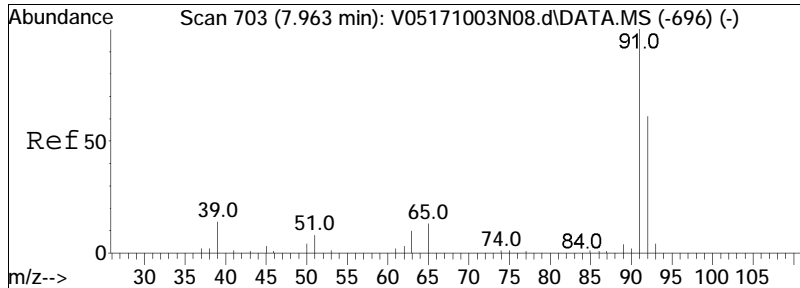




#58
 cis-1,3-Dichloropropene
 Concen: 8.93 ug/L
 RT: 7.699 min Scan# 676
 Delta R.T. -0.010 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

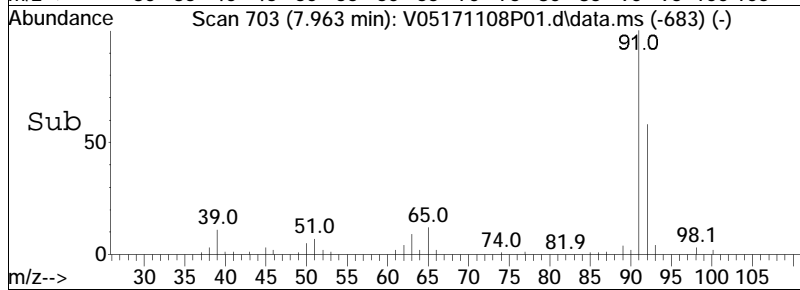
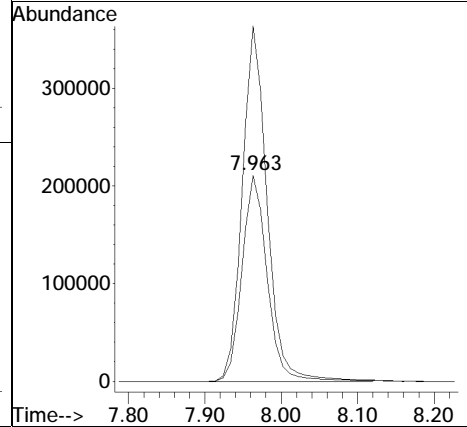
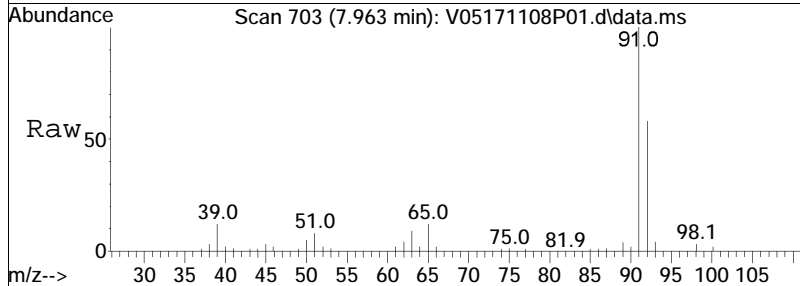
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
75	100		
77	31.6	25.1	37.7
39	58.8	53.4	80.2

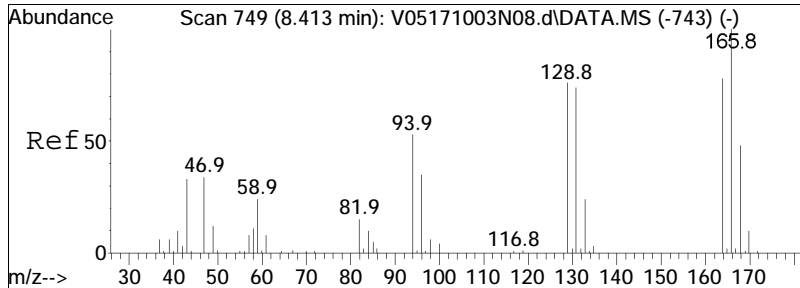




#61
 Toluene
 Concen: 11.18 ug/L
 RT: 7.963 min Scan# 703
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

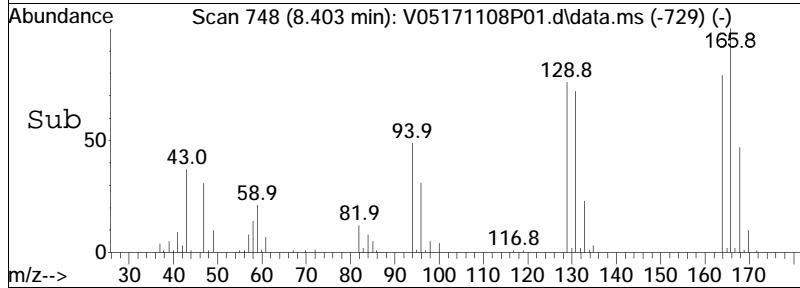
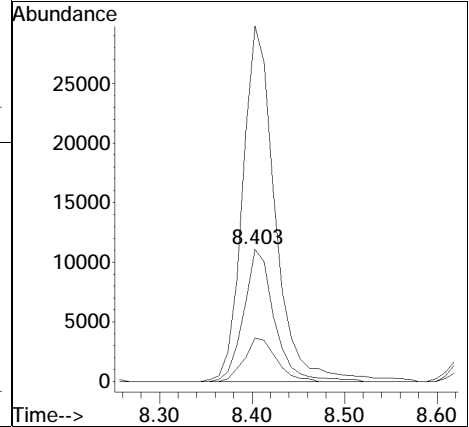
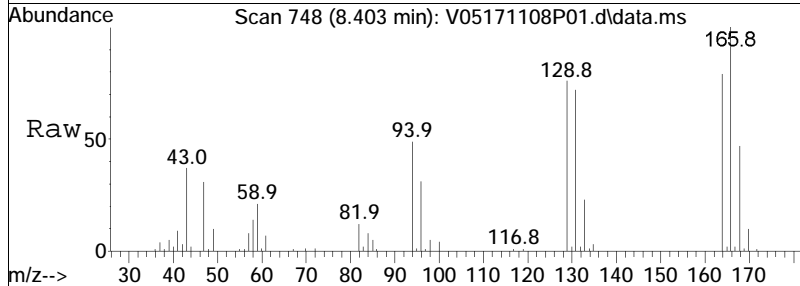
Tgt Ion: 92 Resp: 483055
 Ion Ratio Lower Upper
 92 100
 91 169.6 133.0 199.4

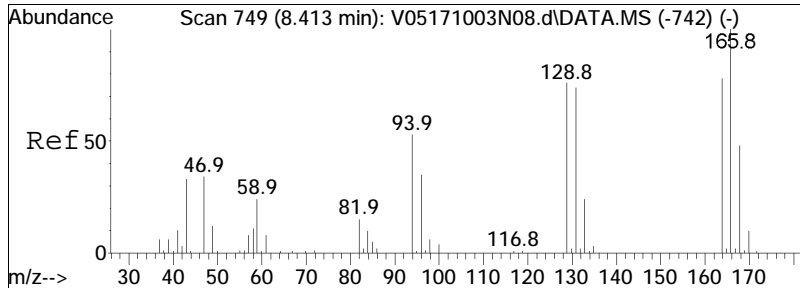




#62
 4-Methyl-2-pentanone
 Concen: 11.83 ug/L
 RT: 8.403 min Scan# 748
 Delta R.T. -0.010 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

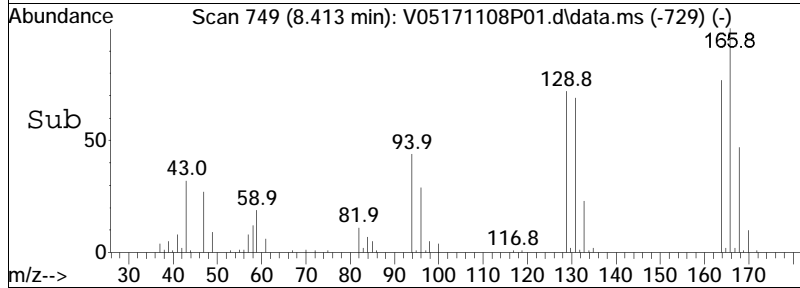
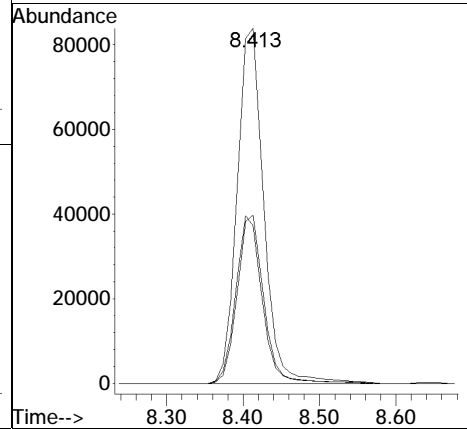
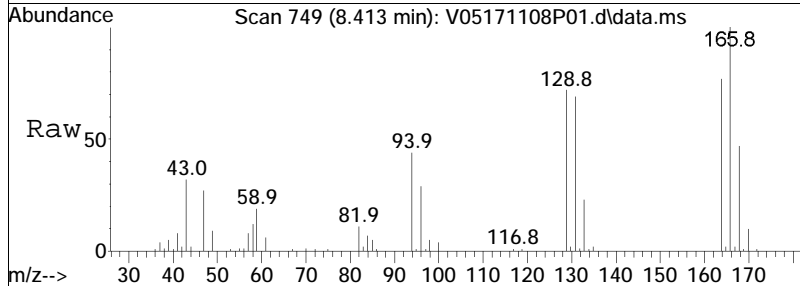
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
58	100		
100	34.2	29.3	43.9
43	287.0	247.4	371.0

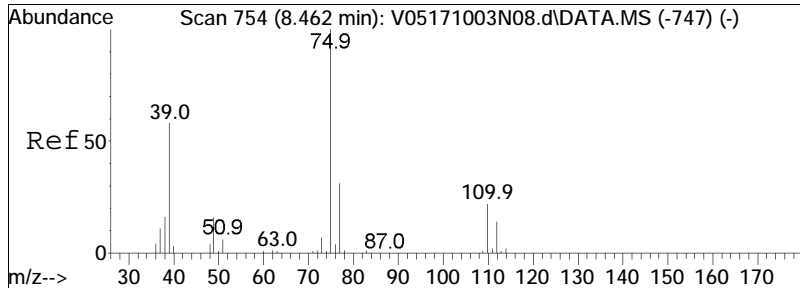




#63
 Tetrachloroethene
 Concen: 8.54 ug/L
 RT: 8.413 min Scan# 749
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

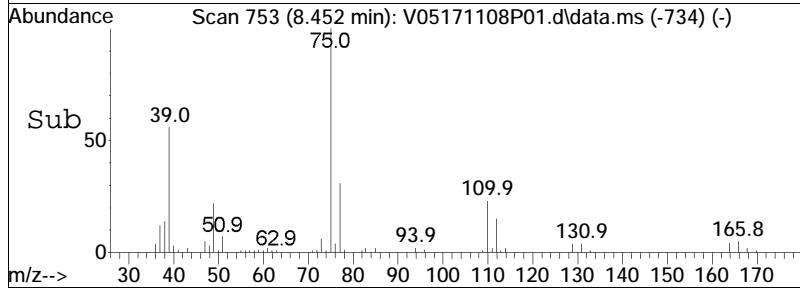
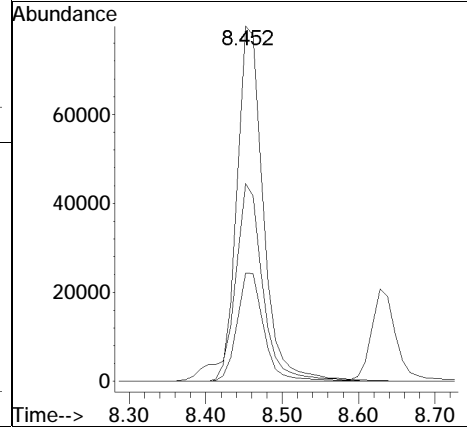
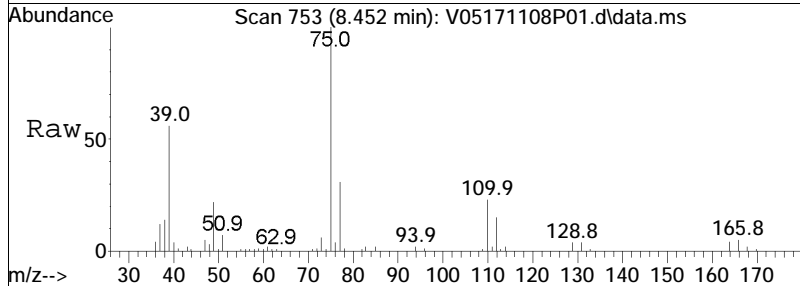
Tgt Ion	Resp	Lower	Upper
166	100		
168	47.1	27.2	67.2
94	46.6	35.8	75.8

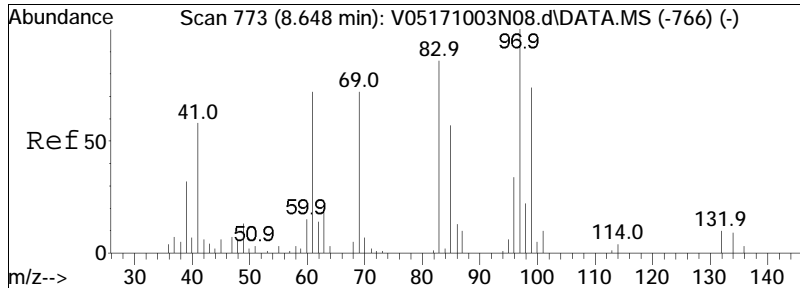




#65
 trans-1,3-Dichloropropene
 Concen: 9.33 ug/L
 RT: 8.452 min Scan# 753
 Delta R.T. -0.010 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

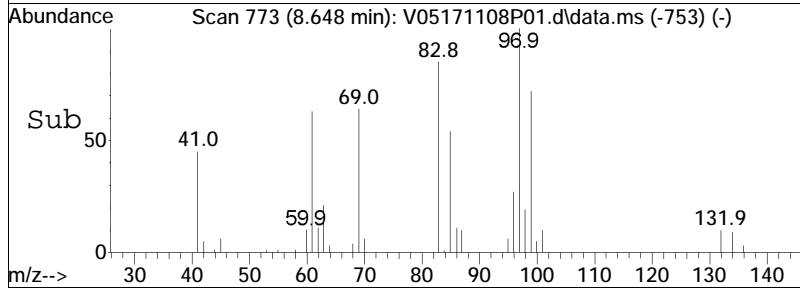
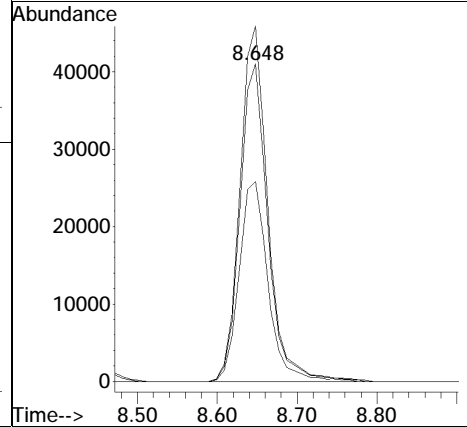
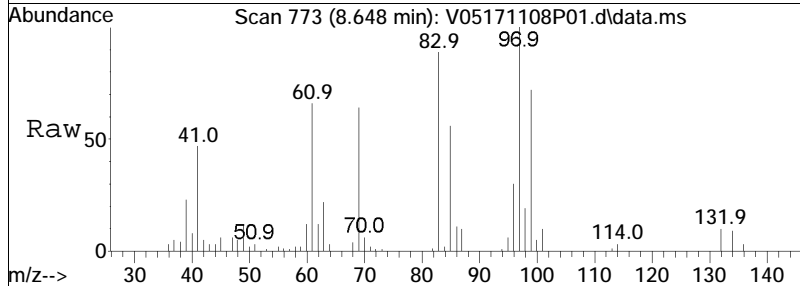
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
75	100		
77	31.1	10.9	50.9
39	60.4	48.1	88.1

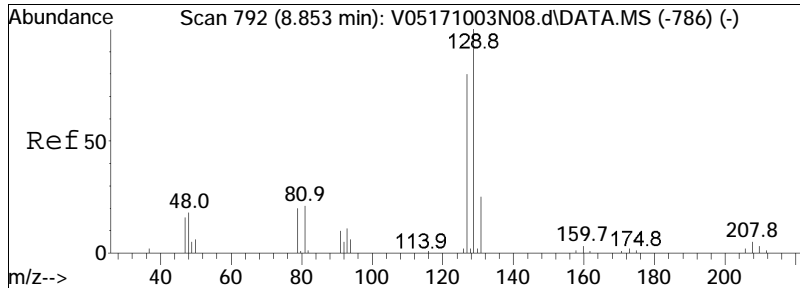




#68
 1,1,2-Trichloroethane
 Concen: 11.27 ug/L
 RT: 8.648 min Scan# 773
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

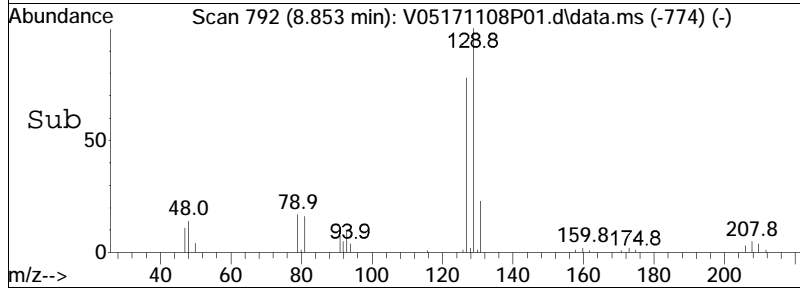
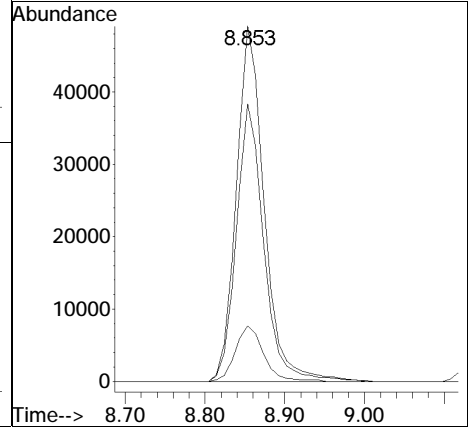
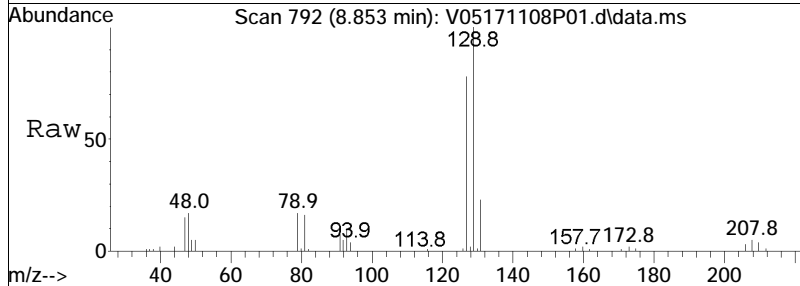
Tgt Ion	Resp	Lower	Upper
83	107193		
83	100		
97	111.8	93.6	133.6
85	65.8	46.9	86.9

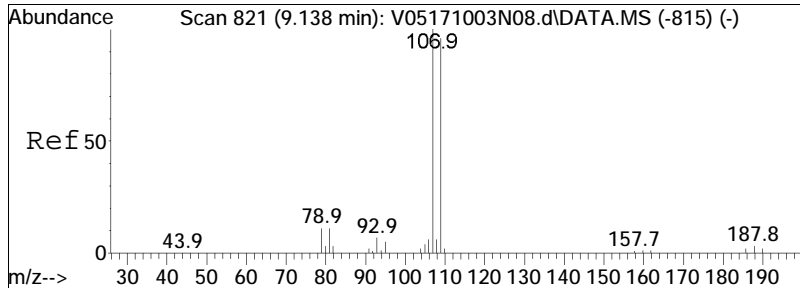




#69
 Chlorodibromomethane
 Concen: 8.64 ug/L
 RT: 8.853 min Scan# 792
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

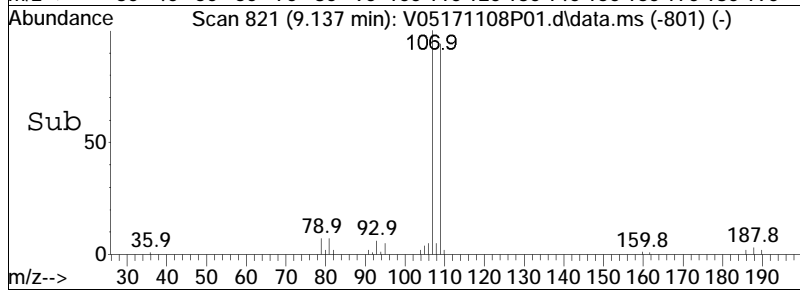
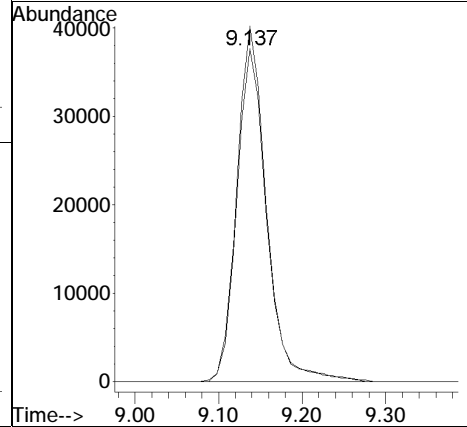
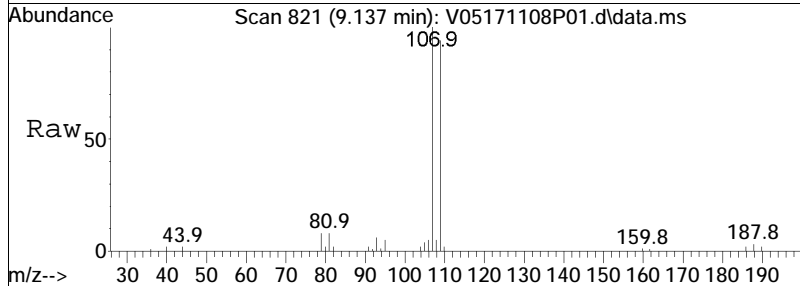
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	119181		
81	15.8		0.0	40.0
127	76.9		57.9	97.9

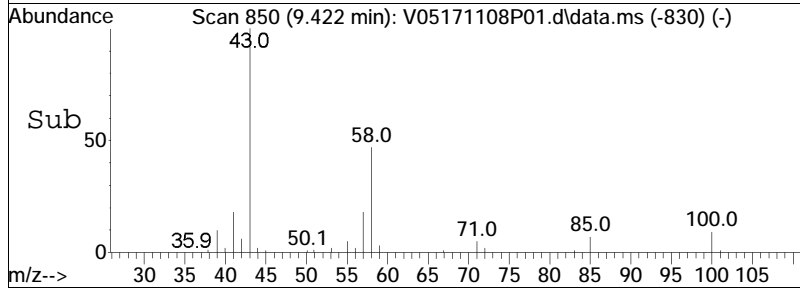
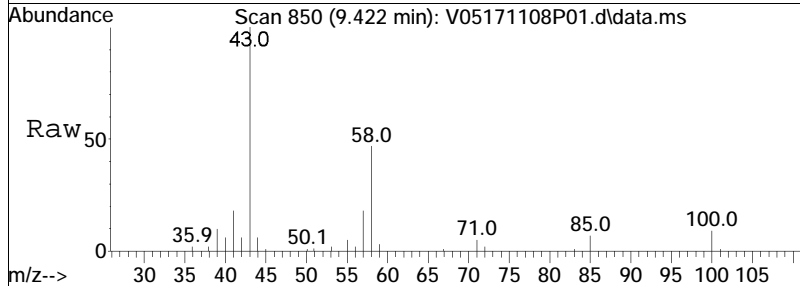
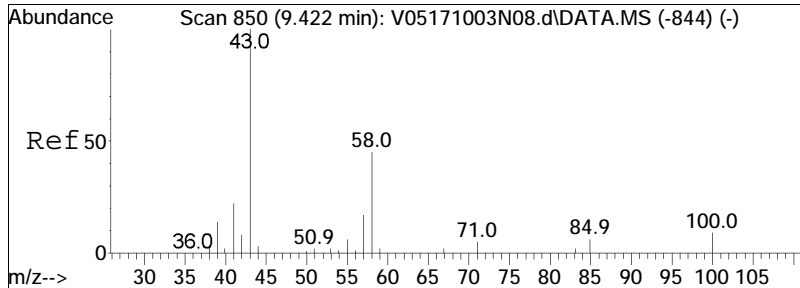




#71
 1,2-Dibromoethane
 Concen: 10.15 ug/L
 RT: 9.137 min Scan# 821
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

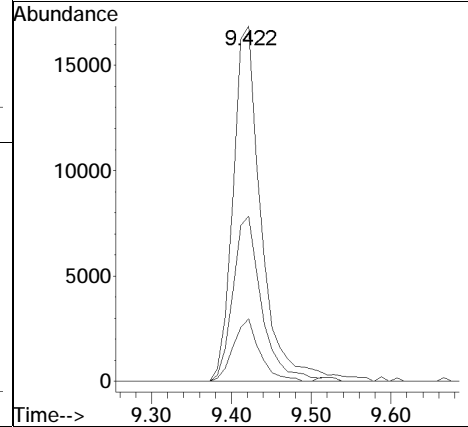
Tgt Ion	Resp	Lower	Upper
107	99063		
109	94.7	75.5	113.3

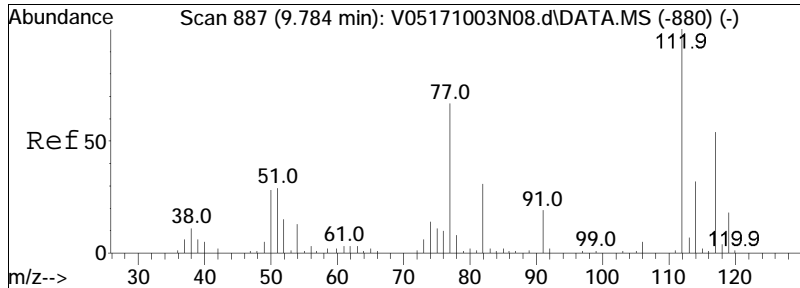




#72
 2-Hexanone
 Concen: 9.70 ug/L
 RT: 9.422 min Scan# 850
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

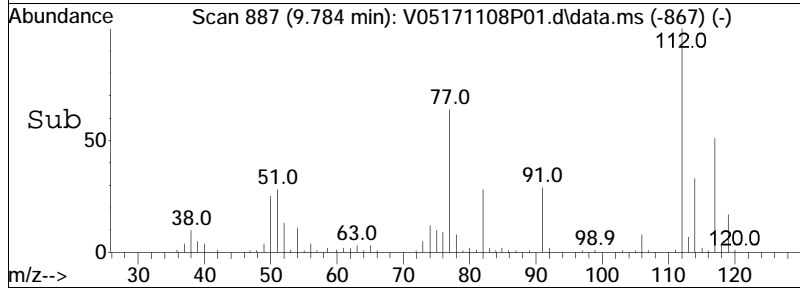
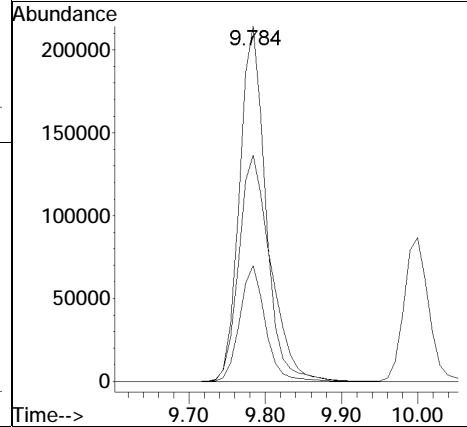
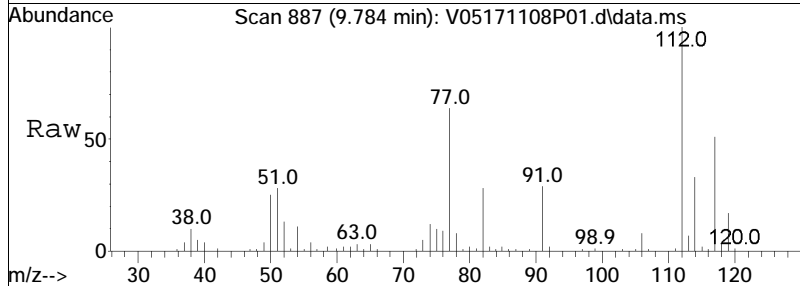
Tgt Ion:	43	Resp:	41719
Ion Ratio	100	Lower	Upper
58	47.5	32.8	49.2
57	16.5	11.8	17.8

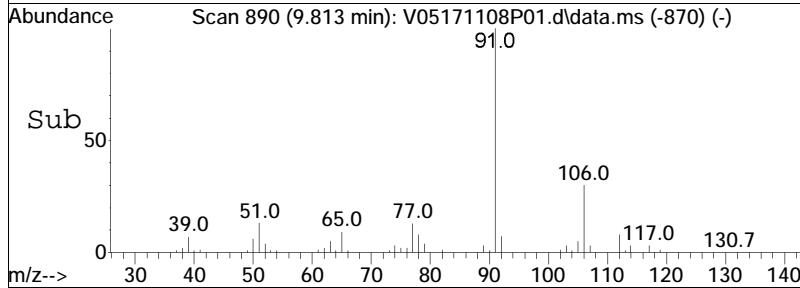
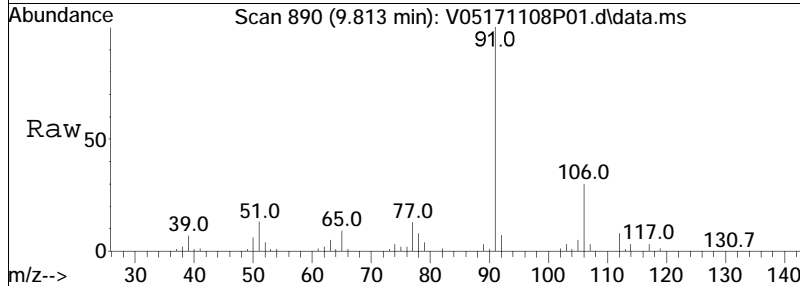
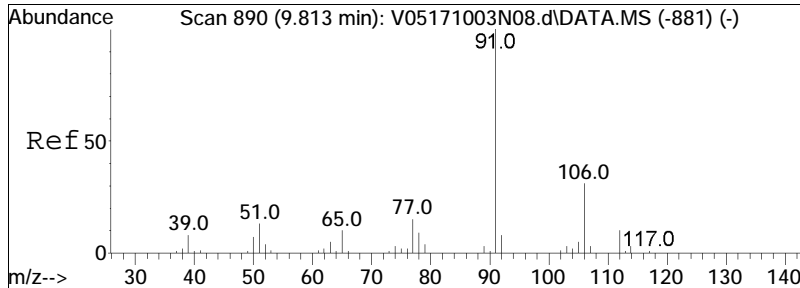




#73
 Chlorobenzene
 Concen: 10.21 ug/L
 RT: 9.784 min Scan# 887
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

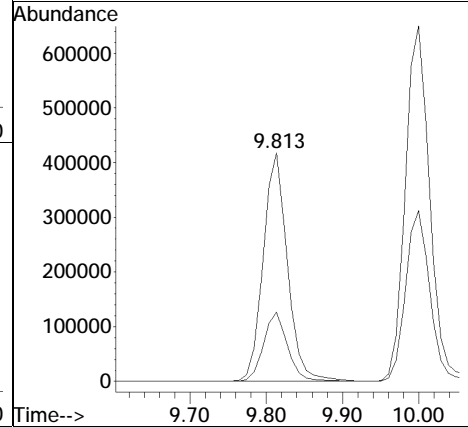
Tgt Ion	Ratio	Lower	Upper
112	100		
77	79.0	67.0	100.4
114	32.2	25.6	38.4

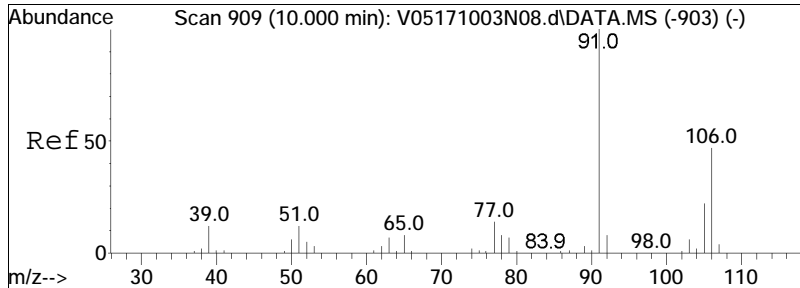




#74
 Ethylbenzene
 Concen: 11.16 ug/L
 RT: 9.813 min Scan# 890
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

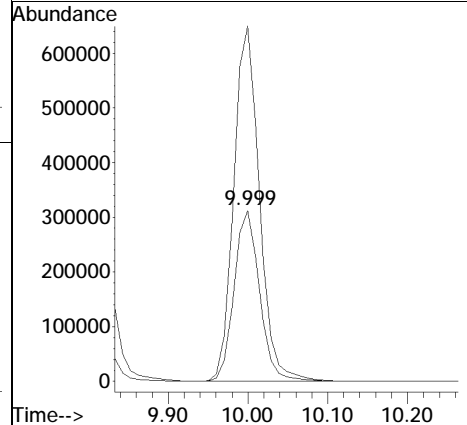
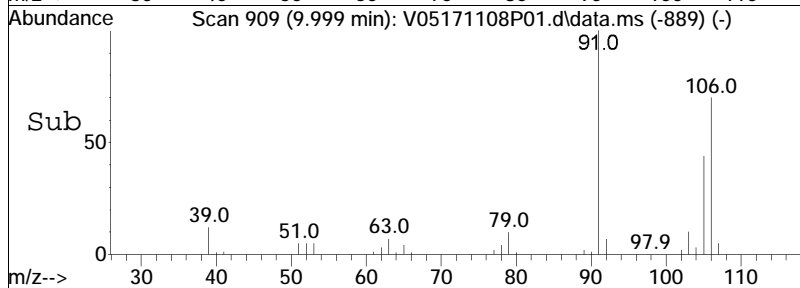
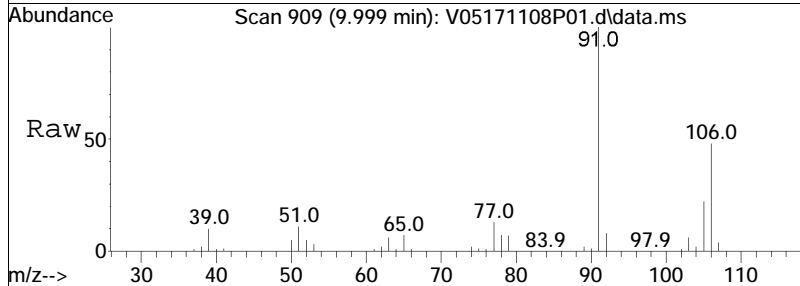
Tgt Ion: 91 Resp: 924656
 Ion Ratio Lower Upper
 91 100
 106 30.0 23.8 35.8

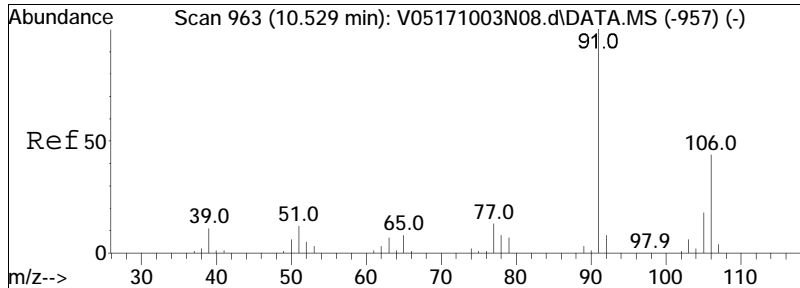




#76
 p/m Xylene
 Concen: 22.15 ug/L
 RT: 9.999 min Scan# 909
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

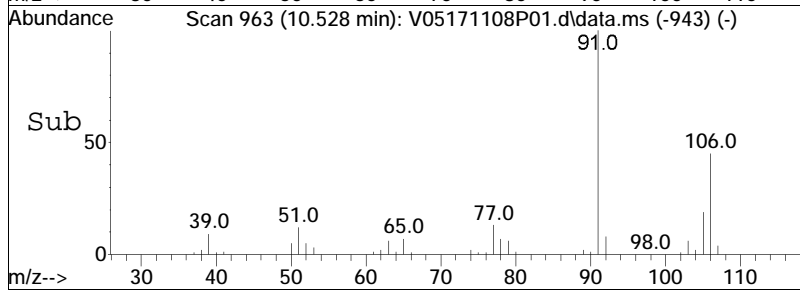
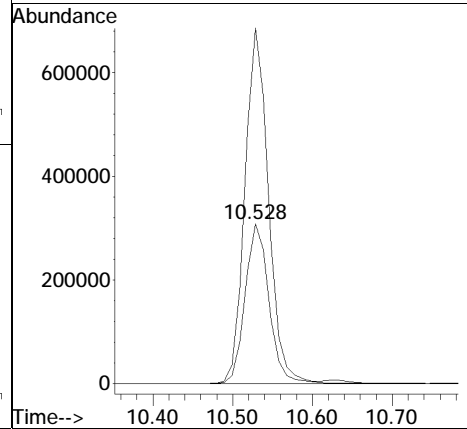
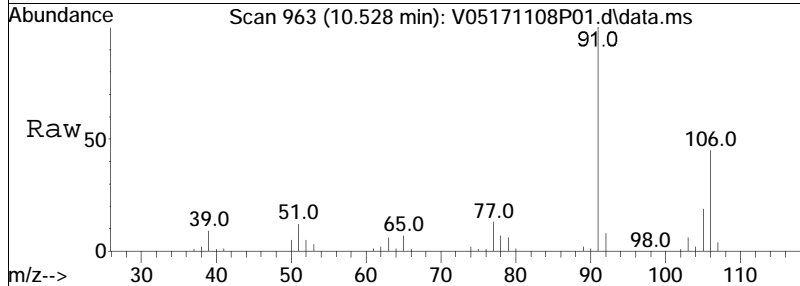
Tgt Ion:106 Resp: 694077
 Ion Ratio Lower Upper
 106 100
 91 208.4 169.0 253.4

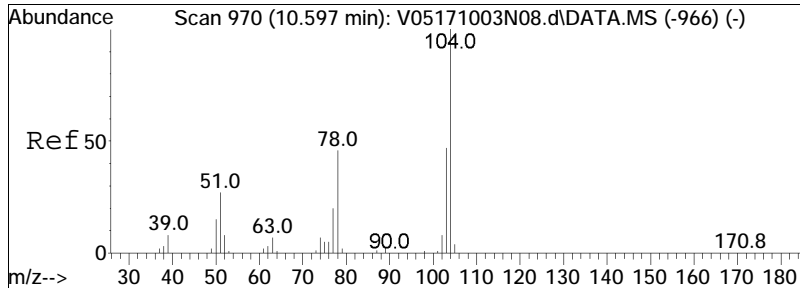




#77
 o Xylene
 Concen: 21.10 ug/L
 RT: 10.528 min Scan# 963
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

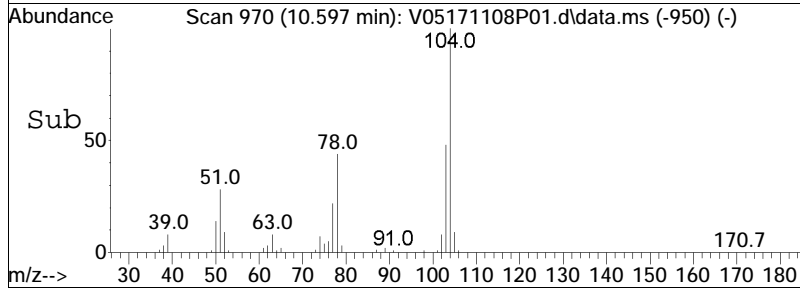
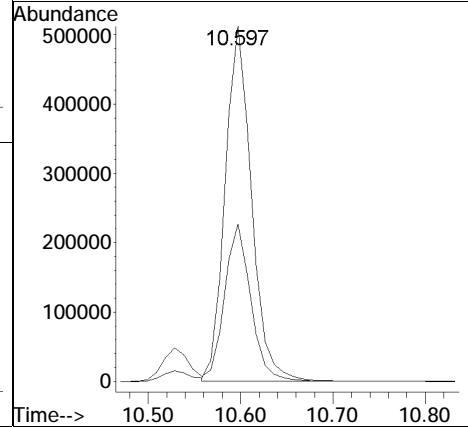
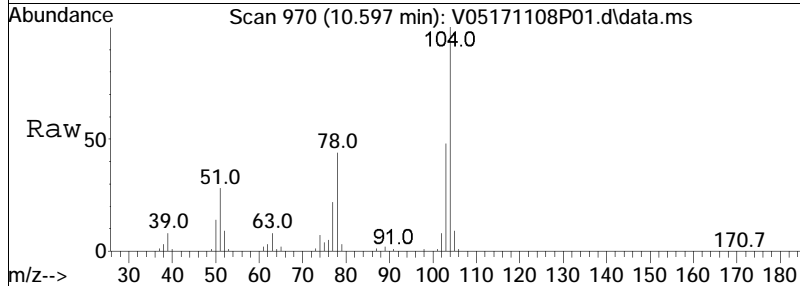
Tgt Ion	Resp	Lower	Upper
106	100		
91	219.5	178.9	268.3

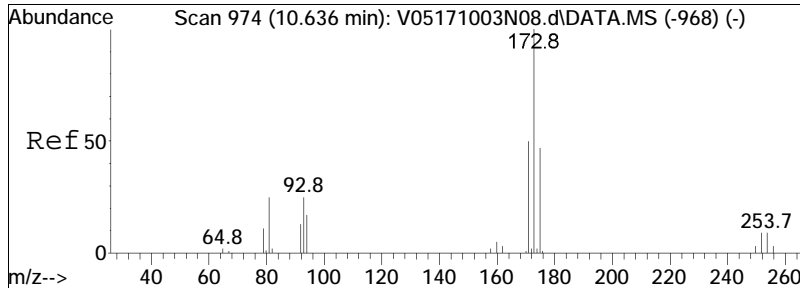




#78
 Styrene
 Concen: 20.85 ug/L
 RT: 10.597 min Scan# 970
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

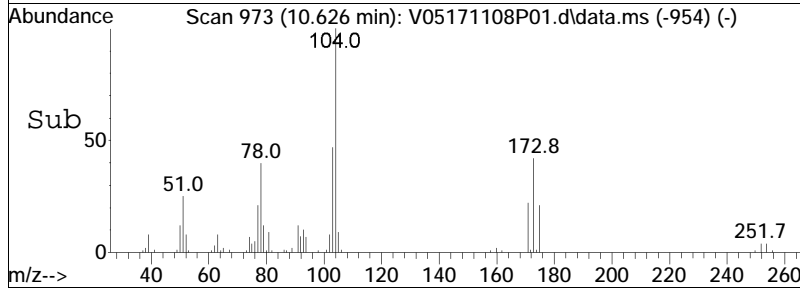
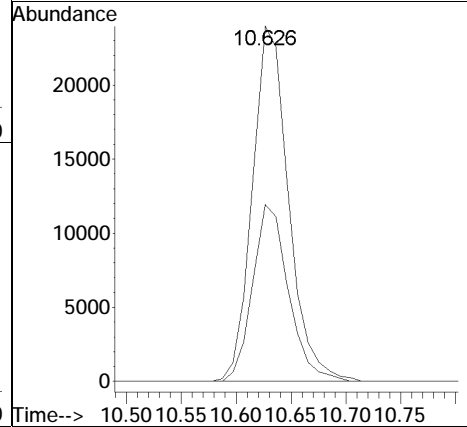
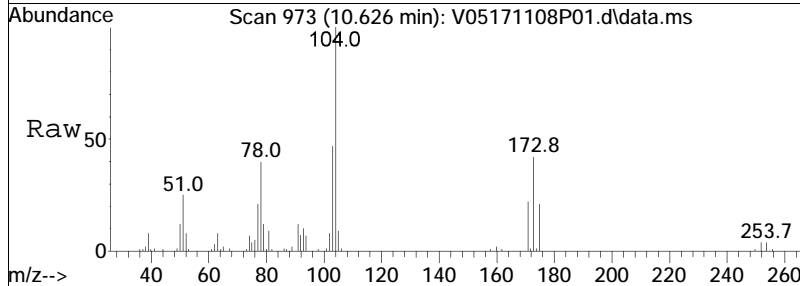
Tgt Ion: 104 Resp: 1016087
 Ion Ratio Lower Upper
 104 100
 78 44.1 37.9 56.9

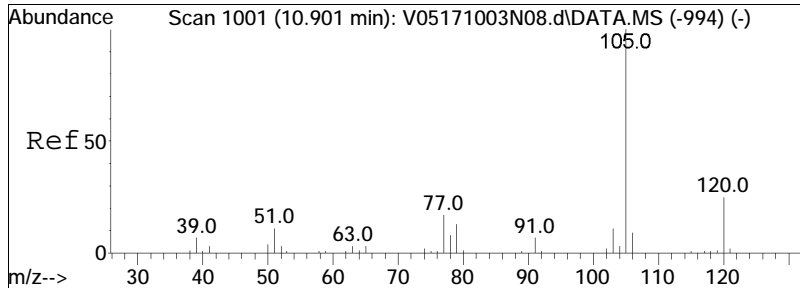




#80
 Bromoform
 Concen: 8.54 ug/L
 RT: 10.626 min Scan# 973
 Delta R.T. -0.010 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

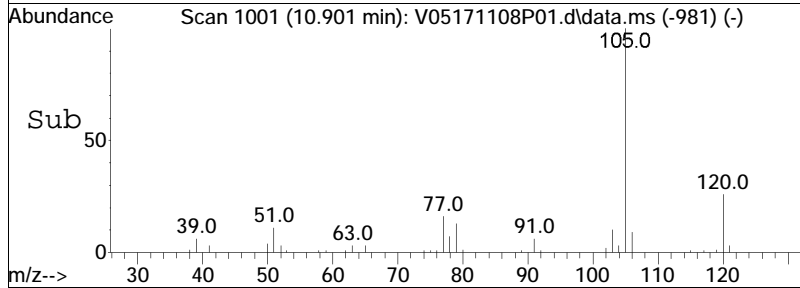
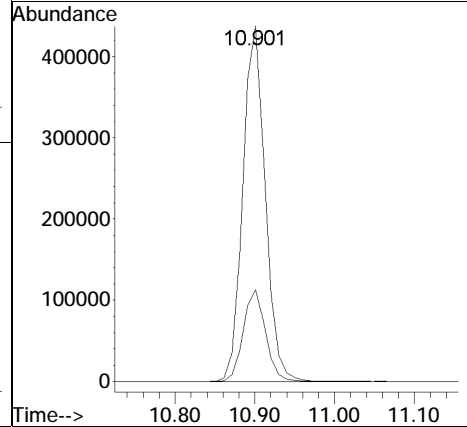
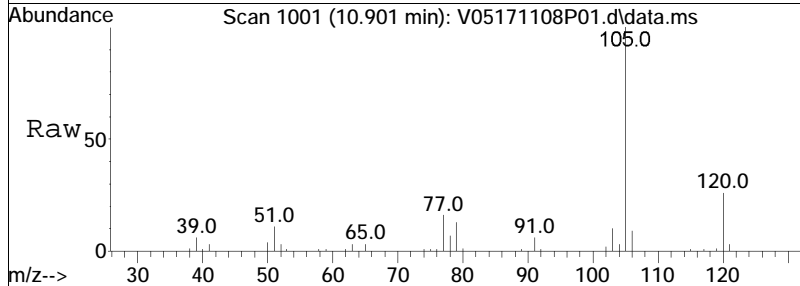
Tgt Ion: 173 Resp: 54973
 Ion Ratio Lower Upper
 173 100
 175 49.4 27.7 67.7

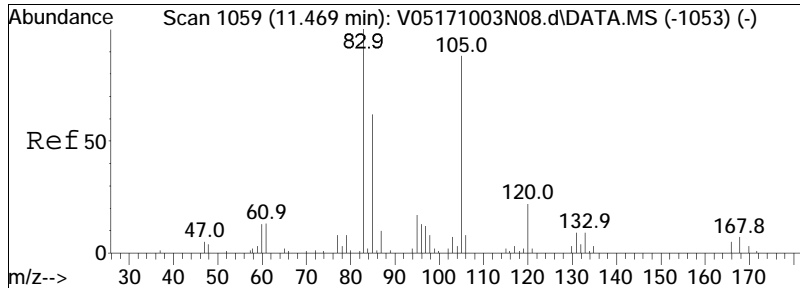




#82
 Isopropylbenzene
 Concen: 11.68 ug/L
 RT: 10.901 min Scan# 1001
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

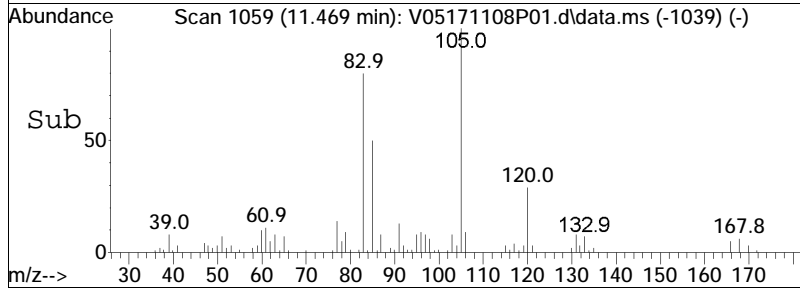
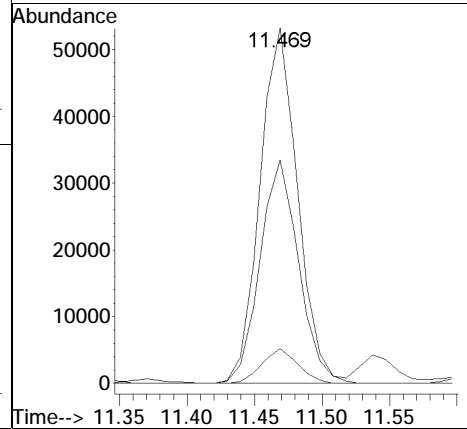
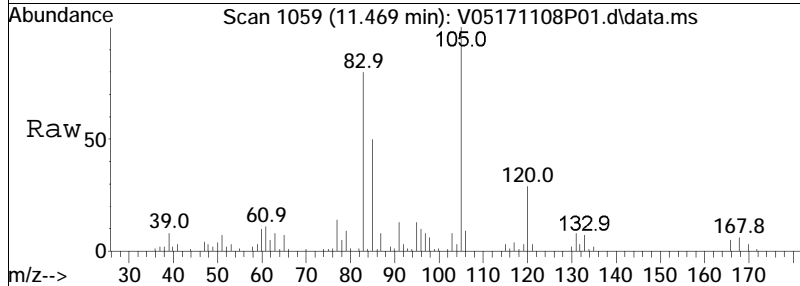
Tgt Ion	Resp	Lower	Upper
105	100		
120	25.6	5.8	45.8

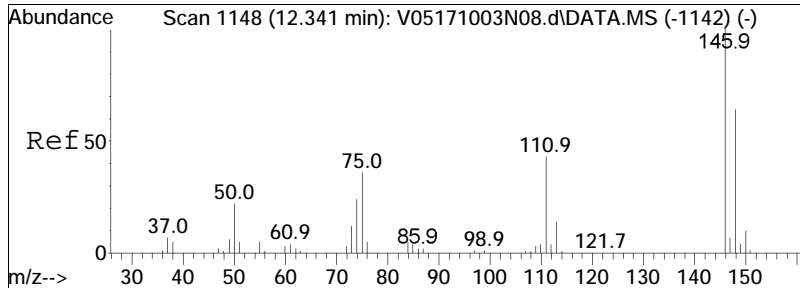




#87
 1,1,2,2-Tetrachloroethane
 Concen: 12.78 ug/L
 RT: 11.469 min Scan# 1059
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

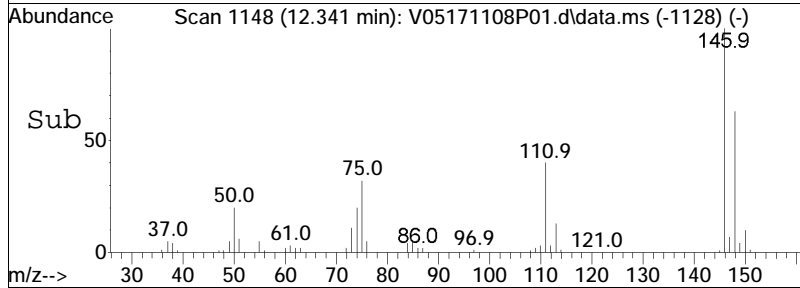
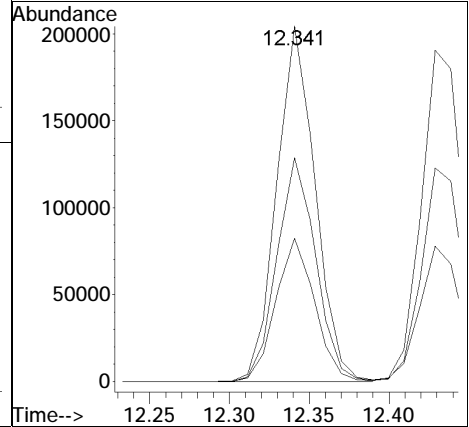
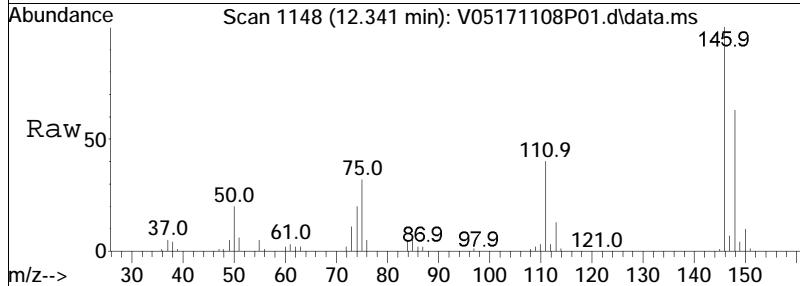
Tgt Ion	Resp	Lower	Upper
83	103005		
83	100		
131	9.4	0.0	29.3
85	64.9	44.5	84.5

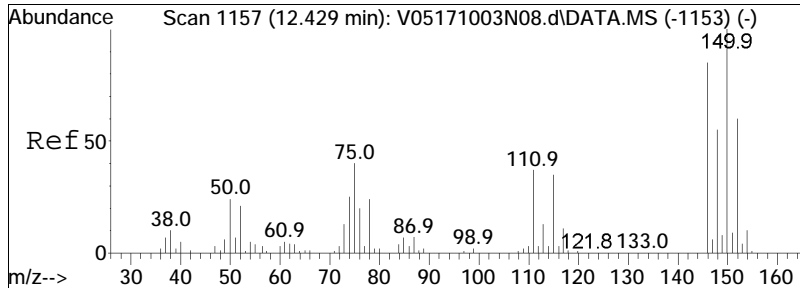




#100
 1,3-Dichlorobenzene
 Concen: 10.59 ug/L
 RT: 12.341 min Scan# 1148
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

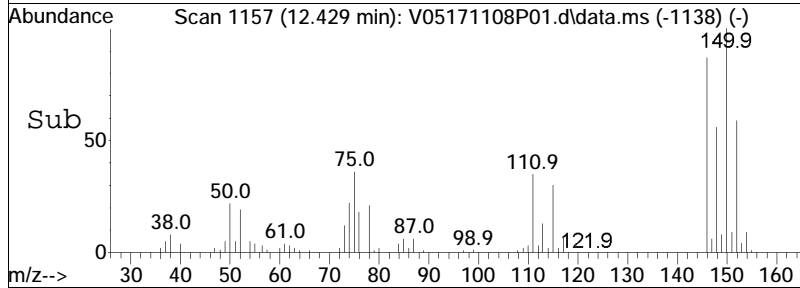
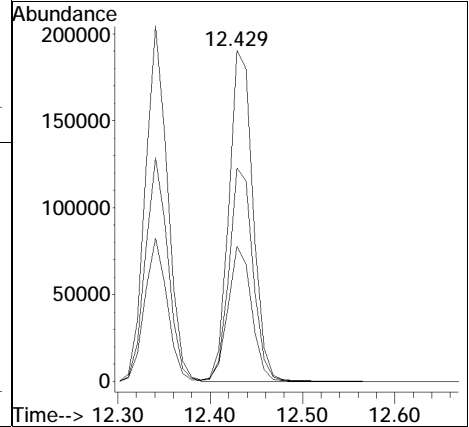
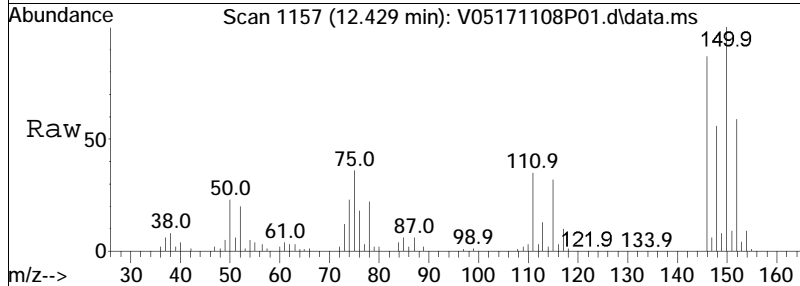
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.8	27.6	57.4
148	63.6	41.3	85.9

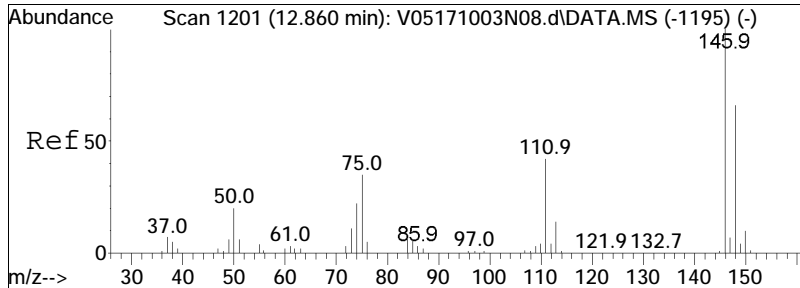




#101
 1,4-Dichlorobenzene
 Concen: 10.17 ug/L
 RT: 12.429 min Scan# 1157
 Delta R.T. -0.010 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

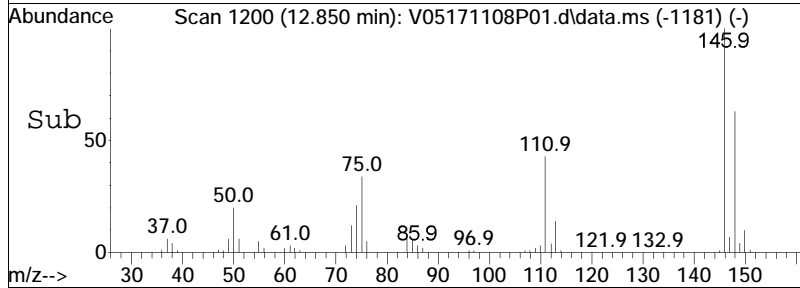
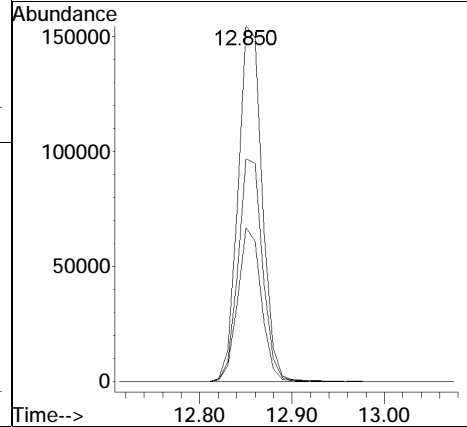
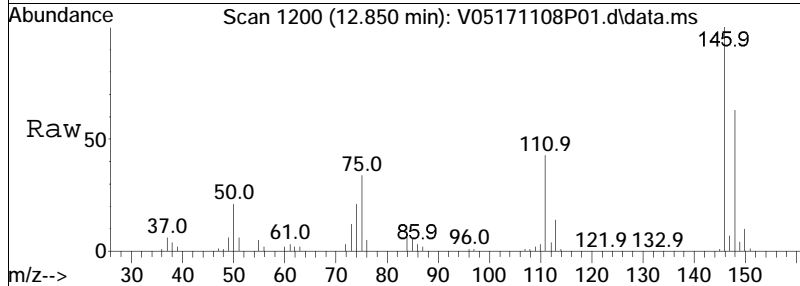
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.3	33.6	50.4
148	64.2	51.3	76.9

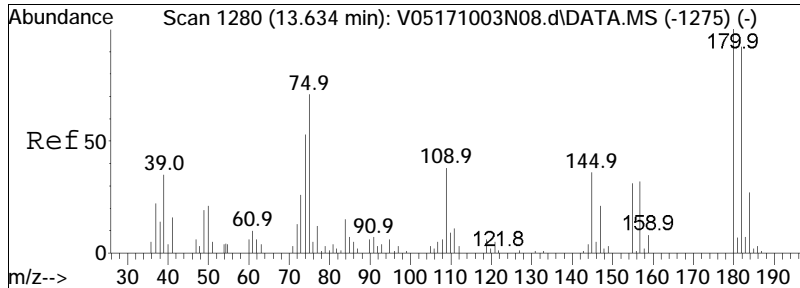




#104
 1,2-Dichlorobenzene
 Concen: 10.53 ug/L
 RT: 12.850 min Scan# 1200
 Delta R.T. -0.010 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

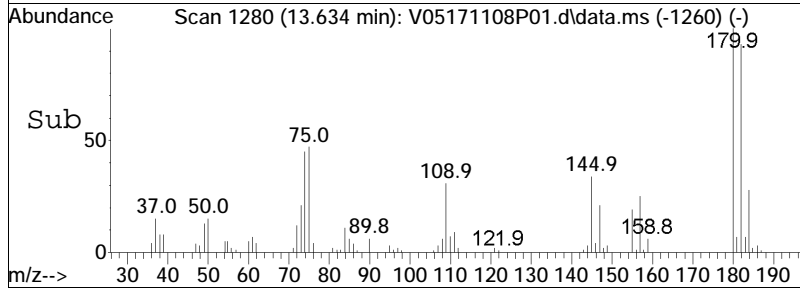
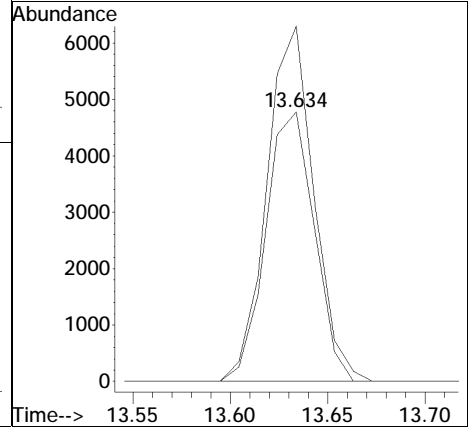
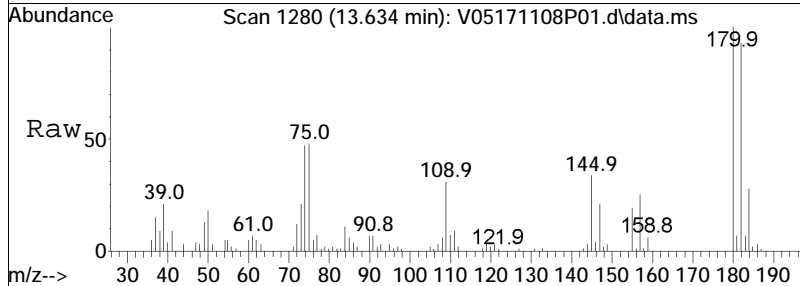
Tgt Ion	Resp	Lower	Upper
146	100		
111	42.3	28.3	58.9
148	63.2	41.9	87.1

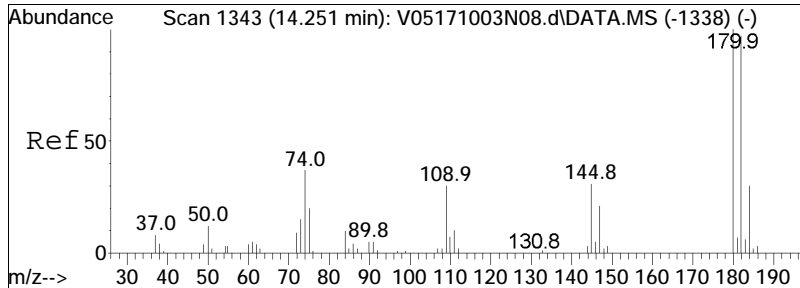




#106
 1,2-Dibromo-3-chloropropane
 Concen: 8.01 ug/L
 RT: 13.634 min Scan# 1280
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

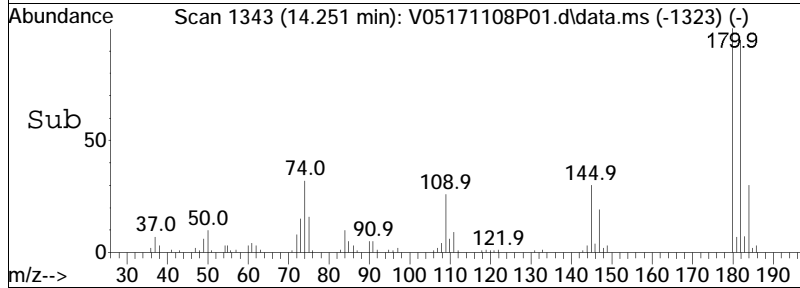
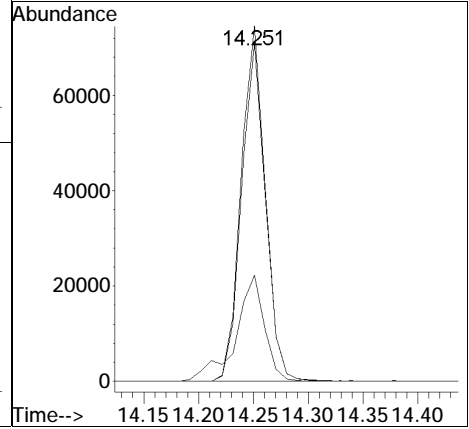
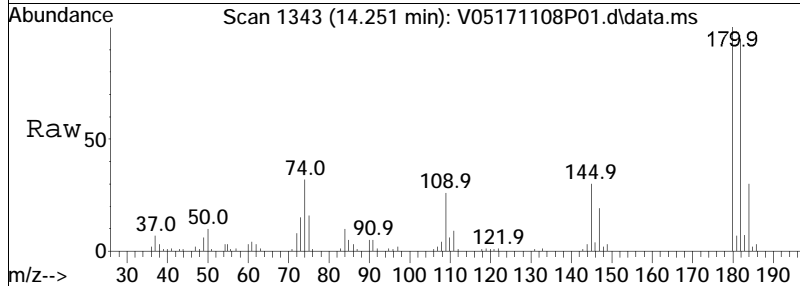
Tgt Ion: 155 Resp: 8290
 Ion Ratio Lower Upper
 155 100
 157 127.1 96.6 145.0

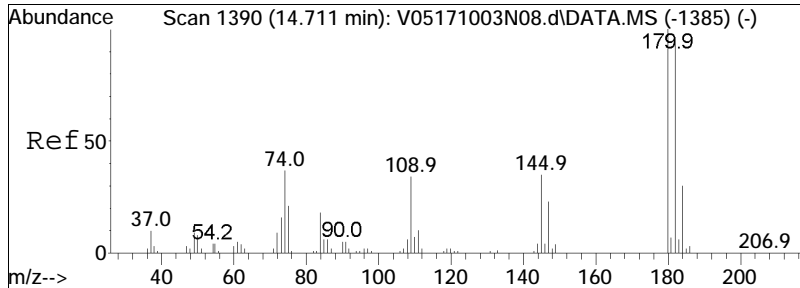




#109
 1,2,4-Trichlorobenzene
 Concen: 10.12 ug/L
 RT: 14.251 min Scan# 1343
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

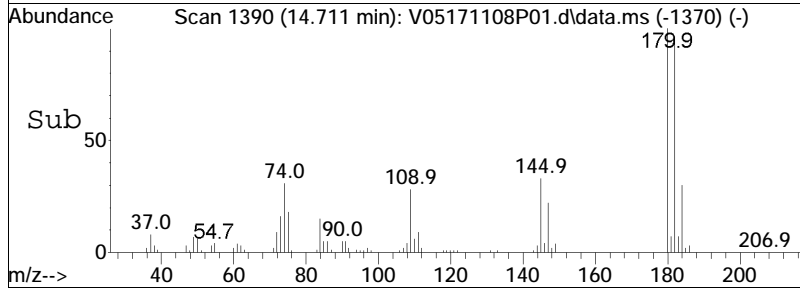
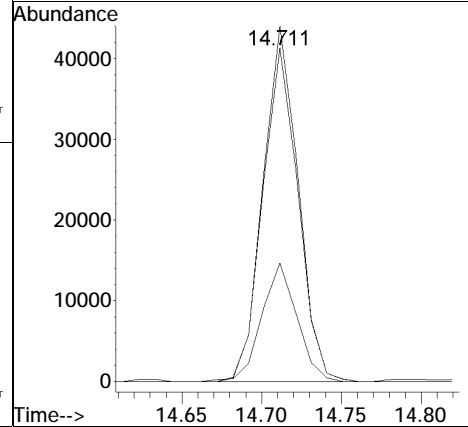
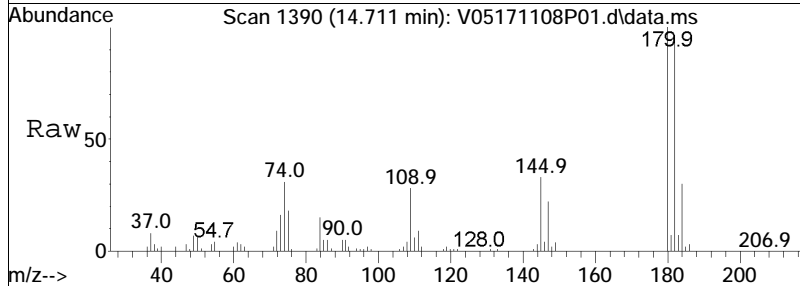
Tgt Ion	Resp	Lower	Upper
180	114471		
180	100		
182	94.2	76.3	114.5
145	35.7	31.0	46.4





#111
 1,2,3-Trichlorobenzene
 Concen: 10.25 ug/L
 RT: 14.711 min Scan# 1390
 Delta R.T. -0.000 min
 Lab File: V05171108P01.d
 Acq: 8 Nov 2017 8:53 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.2	114.2
145	33.5	28.2	42.2



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A02.d
 Acq On : 9 Nov 2017 8:09
 Operator : VOA105:PD
 Sample : WG1061312-10,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 09 08:35:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.213	96	914886	10.000	ug/L	0.00	
59) Chlorobenzene-d5	9.765	117	656090	10.000	ug/L	0.00	
79) 1,4-Dichlorobenzene-d4	12.419	152	321389	10.000	ug/L	0.00	
System Monitoring Compounds							
36) Dibromofluoromethane	5.401	113	225418	8.654	ug/L	0.00	
Spiked Amount	10.000		Range 70 - 130	Recovery =	86.54%		
43) 1,2-Dichloroethane-d4	5.939	65	262894	9.168	ug/L	0.00	
Spiked Amount	10.000		Range 70 - 130	Recovery =	91.68%		
60) Toluene-d8	7.905	98	855358	10.170	ug/L	0.00	
Spiked Amount	10.000		Range 70 - 130	Recovery =	101.70%		
83) 4-Bromofluorobenzene	11.224	95	318201	11.789	ug/L	0.00	
Spiked Amount	10.000		Range 70 - 130	Recovery =	117.89%		
Target Compounds							
2) Dichlorodifluoromethane	1.743	85	163588	11.363	ug/L	98	Qvalue
3) Chloromethane	1.938	50	186239	14.392	ug/L	98	
4) Vinyl chloride	2.026	62	176502	14.719	ug/L	79	
5) Bromomethane	2.349	94	54126M1	8.454	ug/L		
6) Chloroethane	2.476	64	86548M1	12.366	ug/L		
7) Trichlorofluoromethane	2.613	101	238999	8.935	ug/L	98	
10) 1,1-Dichloroethene	3.122	96	138589	10.811	ug/L	97	
11) Carbon disulfide	3.151	76	400459	11.841	ug/L	99	
12) Freon-113	3.151	101	148384	10.322	ug/L	98	
15) Methylene chloride	3.689	84	157441	10.752	ug/L	99	
17) Acetone	3.738	43	22559	9.961	ug/L	92	
18) trans-1,2-Dichloroethene	3.846	96	157737	10.396	ug/L	99	
19) Methyl acetate	3.855	43	54117	11.765	ug/L	99	
20) Methyl tert-butyl ether	3.934	73	256363	10.486	ug/L	97	
23) 1,1-Dichloroethane	4.442	63	310915	11.314	ug/L	99	
28) cis-1,2-Dichloroethene	4.961	96	171290	10.400	ug/L	96	
30) Bromochloromethane	5.156	128	66877	8.924	ug/L	98	
31) Cyclohexane	5.146	56	301651	12.611	ug/L	97	
32) Chloroform	5.225	83	284721	9.433	ug/L	98	
34) Carbon tetrachloride	5.352	117	216555	8.251	ug/L	100	
37) 1,1,1-Trichloroethane	5.420	97	258152	8.853	ug/L	99	
39) 2-Butanone	5.528	43	30939	11.544	ug/L	98	
41) Benzene	5.792	78	635274	10.863	ug/L	99	
44) 1,2-Dichloroethane	6.007	62	186007	9.338	ug/L	99	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A02.d
 Acq On : 9 Nov 2017 8:09
 Operator : VOA105:PD
 Sample : WG1061312-10,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 09 08:35:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Methyl cyclohexane	6.369	83	231904	10.990	ug/L	98
48) Trichloroethene	6.389	95	170873	9.324	ug/L	97
51) 1,2-Dichloropropane	6.946	63	158671	11.855	ug/L	95
54) Bromodichloromethane	7.015	83	193776	9.137	ug/L	99
57) 1,4-Dioxane	7.230	88	28879	531.273	ug/L	94
58) cis-1,3-Dichloropropene	7.709	75	201220	8.662	ug/L	94
61) Toluene	7.963	92	411661	11.017	ug/L	98
62) 4-Methyl-2-pentanone	8.403	58	21817	11.711	ug/L	88
63) Tetrachloroethene	8.413	166	177621	8.600	ug/L	93
65) trans-1,3-Dichloropropene	8.462	75	159398	8.975	ug/L	95
68) 1,1,2-Trichloroethane	8.648	83	93443	11.353	ug/L	100
69) Chlorodibromomethane	8.854	129	107078	8.977	ug/L	97
71) 1,2-Dibromoethane	9.138	107	86623	10.264	ug/L	99
72) 2-Hexanone	9.422	43	35748	9.614	ug/L	94
73) Chlorobenzene	9.784	112	438548	10.244	ug/L	96
74) Ethylbenzene	9.814	91	796390	11.114	ug/L	100
76) p/m Xylene	10.000	106	596598	22.011	ug/L	99
77) o Xylene	10.529	106	547236	20.922	ug/L	98
78) Styrene	10.597	104	883432	20.952	ug/L	95
80) Bromoform	10.627	173	51192	8.811	ug/L	98
82) Isopropylbenzene	10.901	105	737241	11.199	ug/L	100
87) 1,1,2,2-Tetrachloroethane	11.469	83	93607	12.867	ug/L	99
100) 1,3-Dichlorobenzene	12.341	146	311350	10.666	ug/L	98
101) 1,4-Dichlorobenzene	12.429	146	317502	10.374	ug/L	98
104) 1,2-Dichlorobenzene	12.850	146	256372	10.665	ug/L	99
106) 1,2-Dibromo-3-chloropr...	13.634	155	7645	8.169	ug/L	94
109) 1,2,4-Trichlorobenzene	14.251	180	102651	10.050	ug/L	99
111) 1,2,3-Trichlorobenzene	14.712	180	63900	10.807	ug/L	97

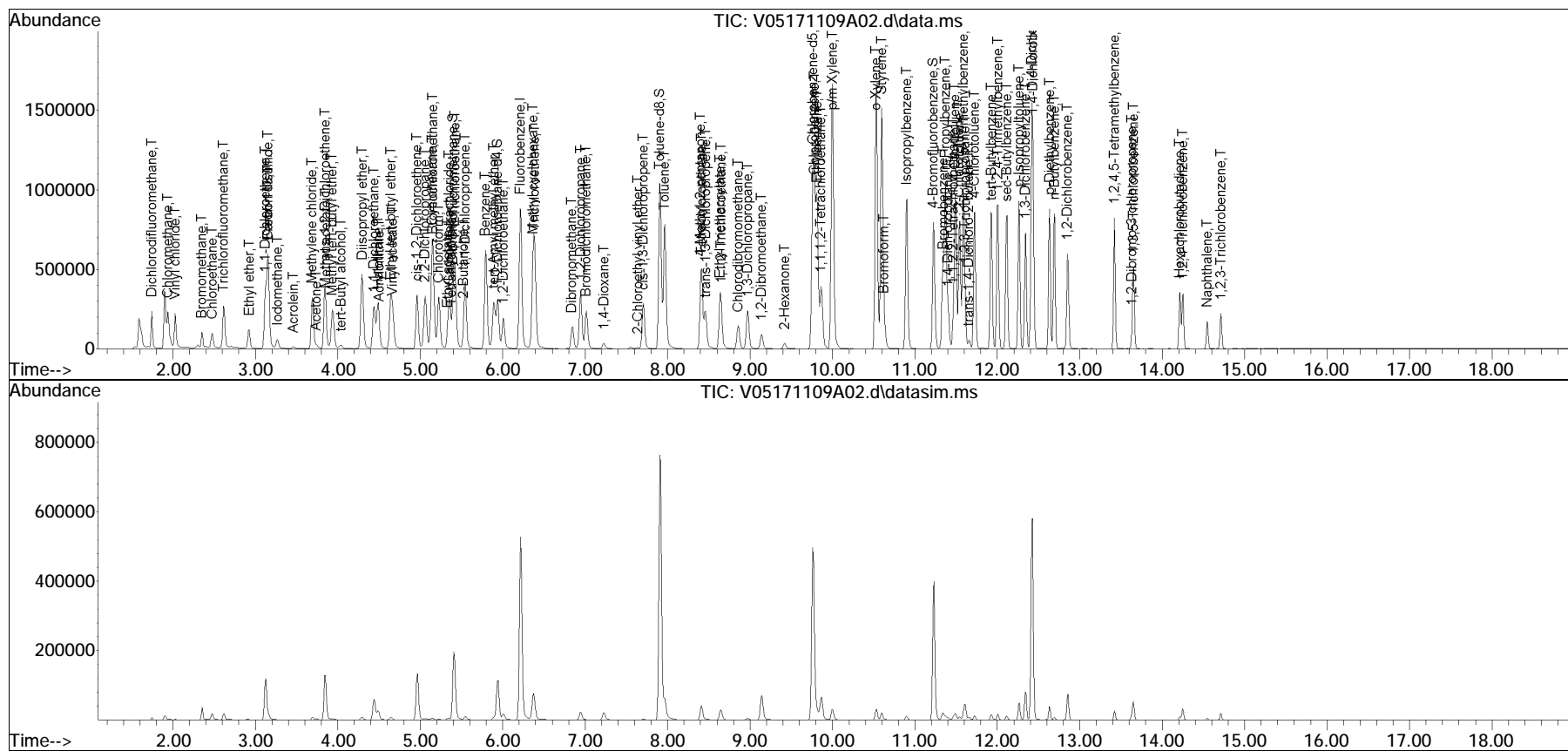
(#) = qualifier out of range (m) = manual integration (+) = signals summed

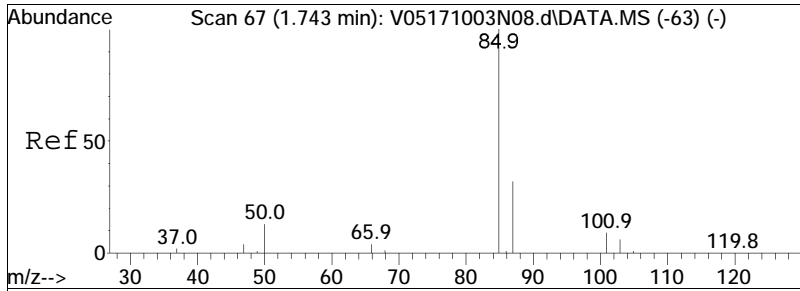
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A02.d
 Acq On : 9 Nov 2017 8:09
 Operator : VOA105:PD
 Sample : WG1061312-10,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 09 08:35:05 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

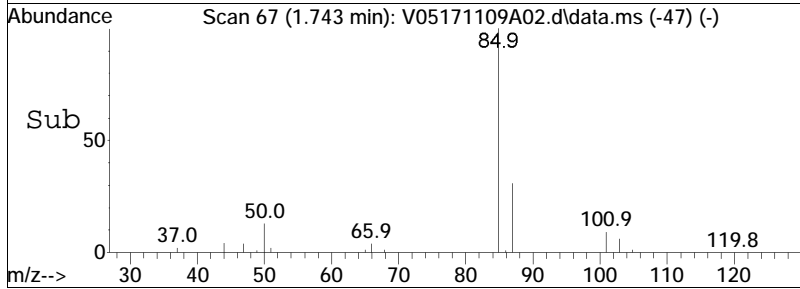
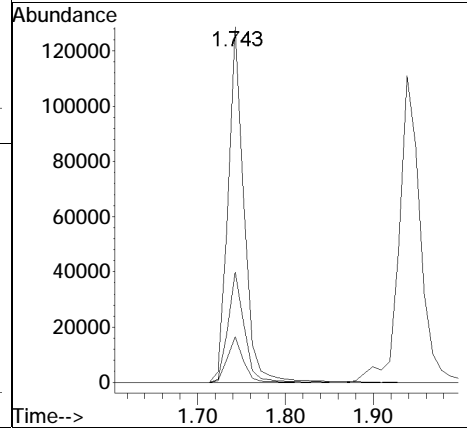
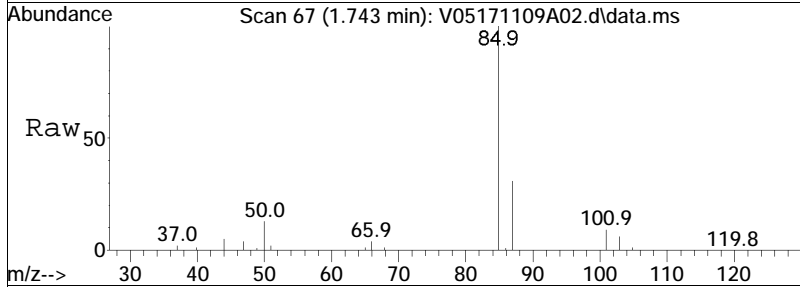
Sub List : 8260-Curve - Megamix plus Diox

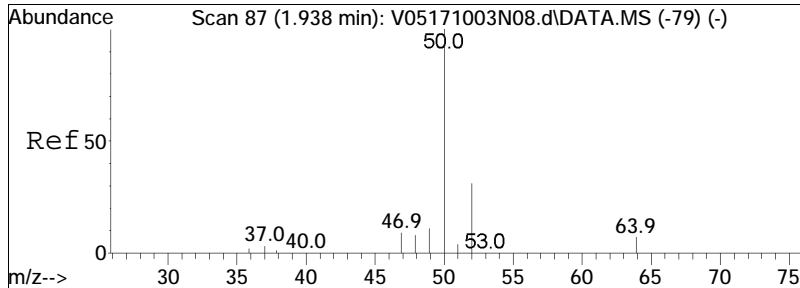




#2
 Dichlorodifluoromethane
 Concen: 11.36 ug/L
 RT: 1.743 min Scan# 67
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

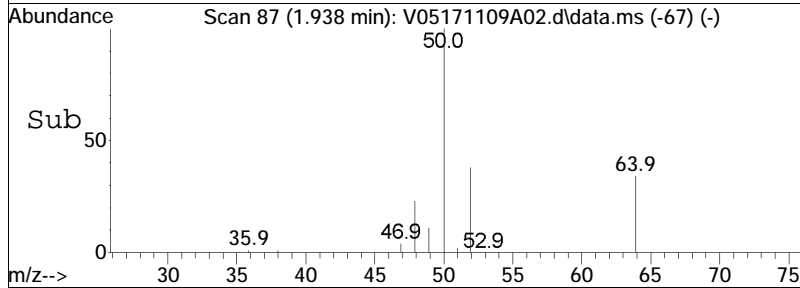
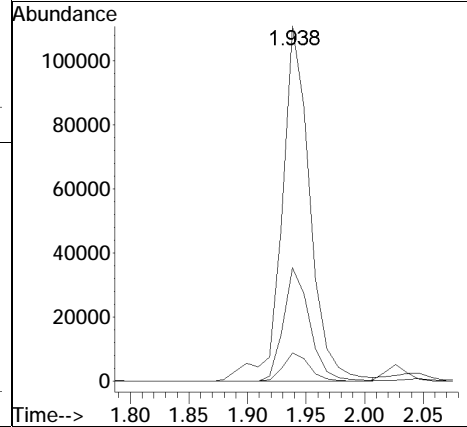
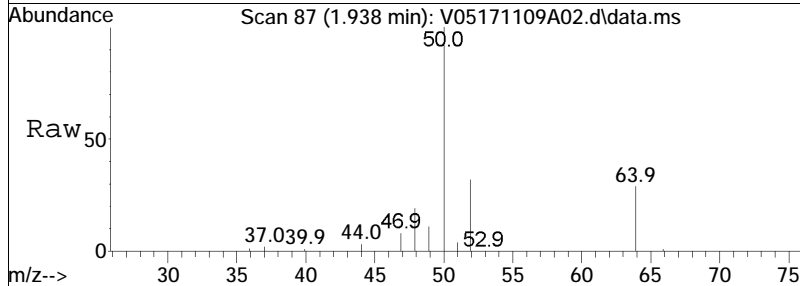
Tgt Ion	Resp	Lower	Upper
85	163588		
85	100		
87	31.6	21.3	44.1
50	12.7	8.7	18.1

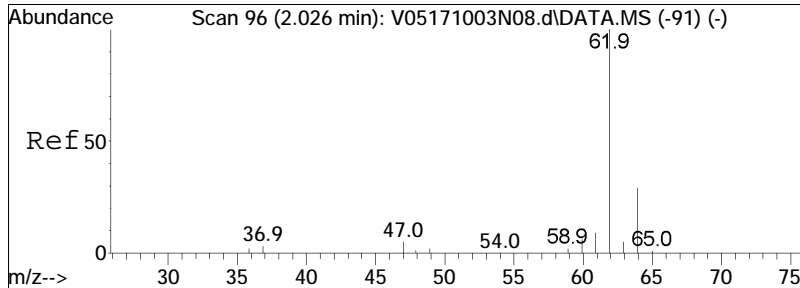




#3
 Chloromethane
 Concen: 14.39 ug/L
 RT: 1.938 min Scan# 87
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

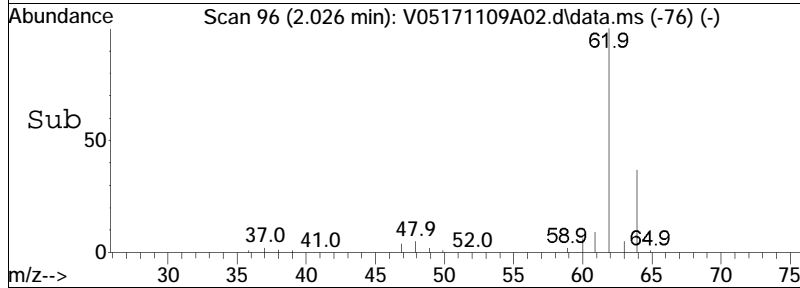
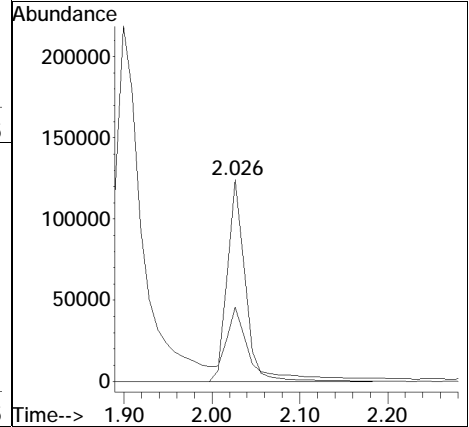
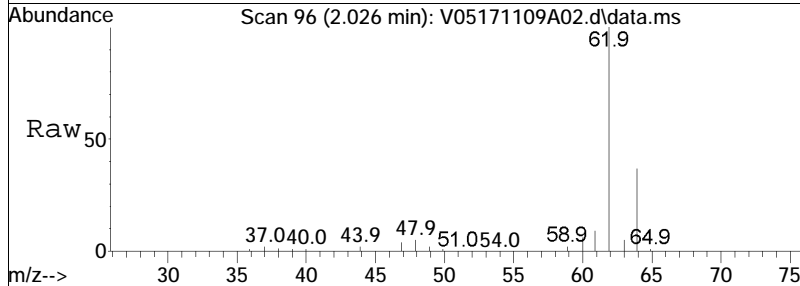
Tgt Ion	Resp	Lower	Upper
50	186239		
52	30.0	11.4	51.4
47	7.7	0.0	28.0

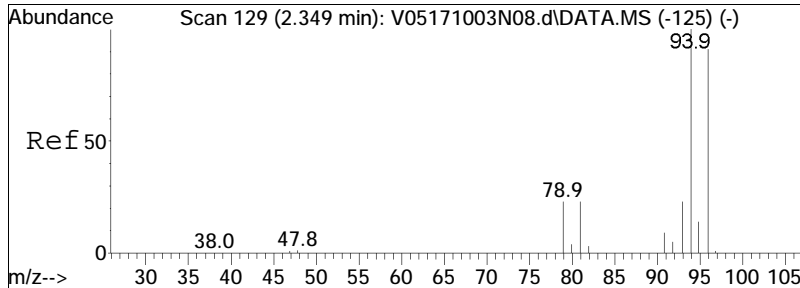




#4
 Vinyl chloride
 Concen: 14.72 ug/L
 RT: 2.026 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

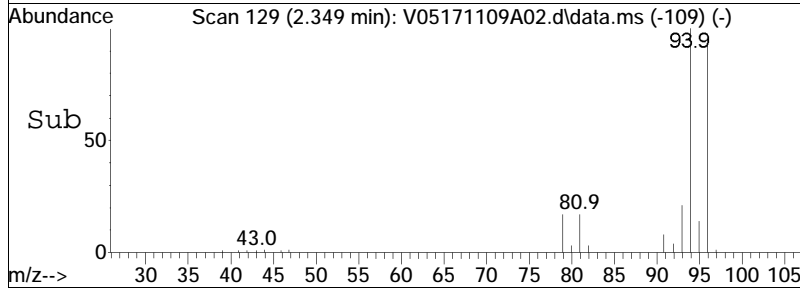
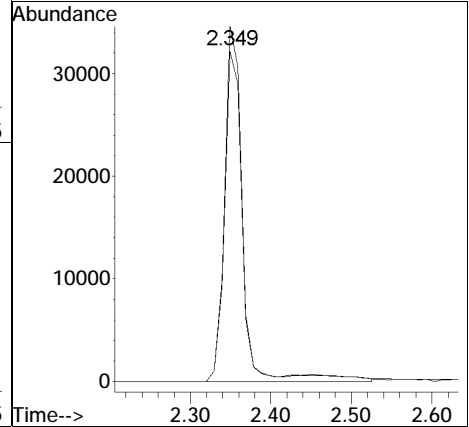
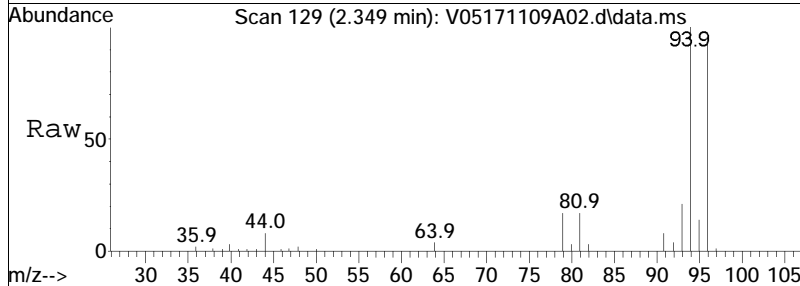
Tgt Ion: 62 Resp: 176502
 Ion Ratio Lower Upper
 62 100
 64 45.7 13.8 53.8

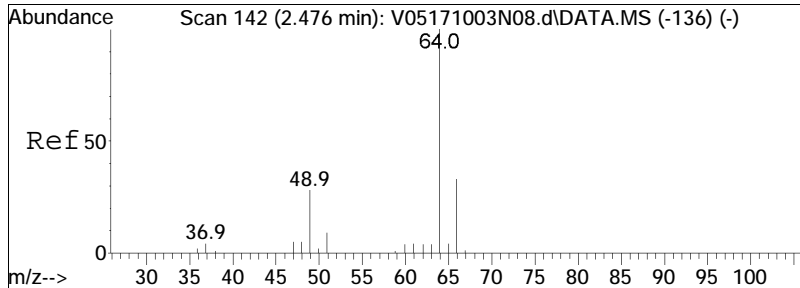




#5
 Bromomethane
 Concen: 8.45 ug/L M1
 RT: 2.349 min Scan# 129
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

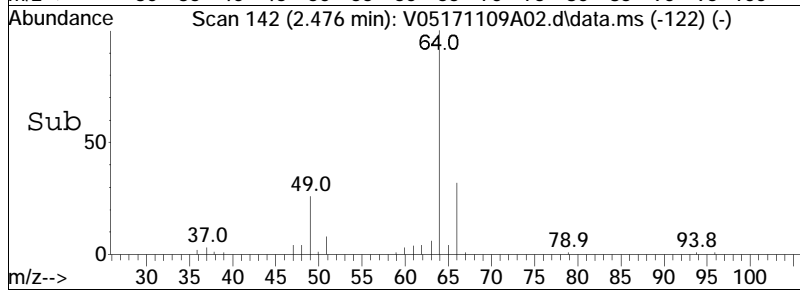
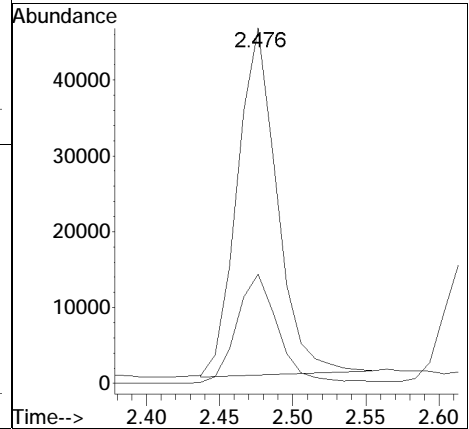
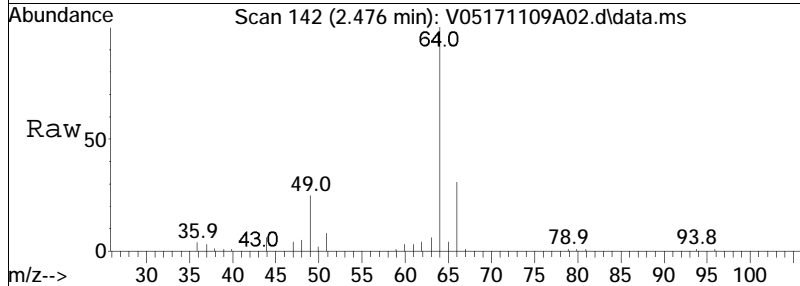
Tgt Ion: 94 Resp: 54126
 Ion Ratio Lower Upper
 94 100
 96 87.6 73.1 113.1

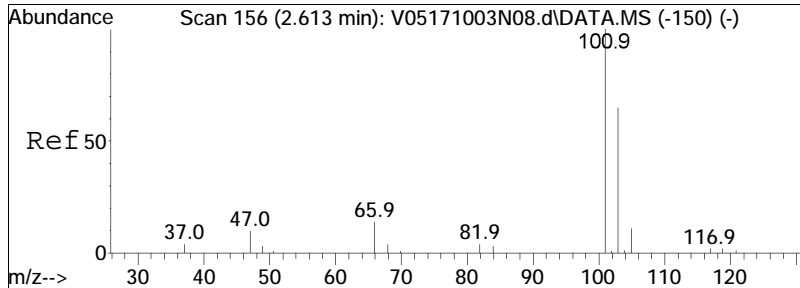




#6
 Chloroethane
 Concen: 12.37 ug/L M1
 RT: 2.476 min Scan# 142
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

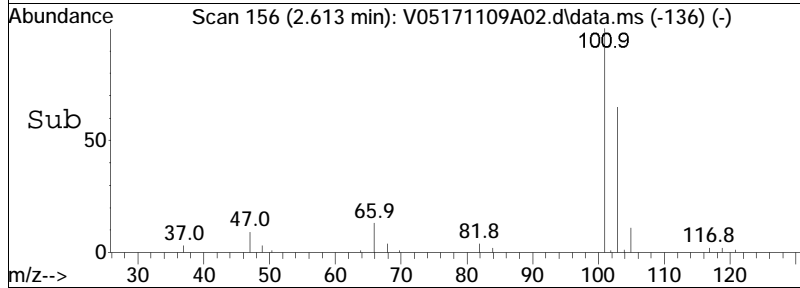
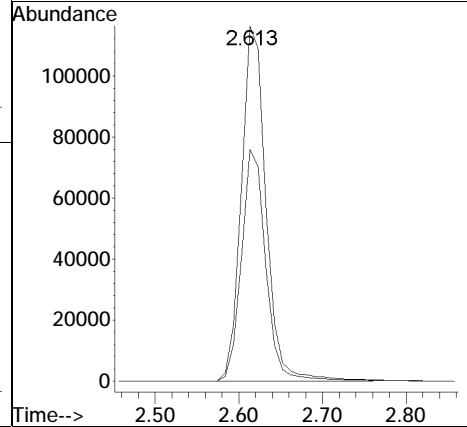
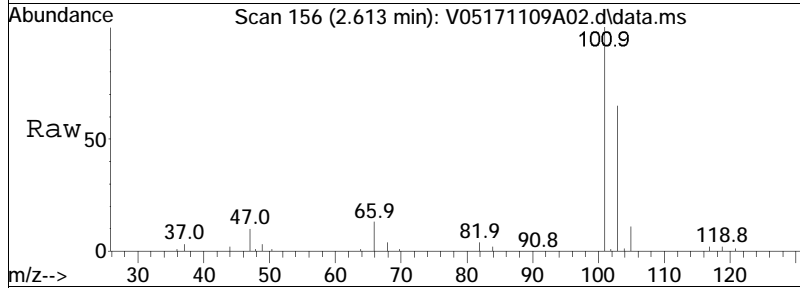
Tgt Ion: 64 Resp: 86548
 Ion Ratio Lower Upper
 64 100
 66 33.1 13.7 53.7

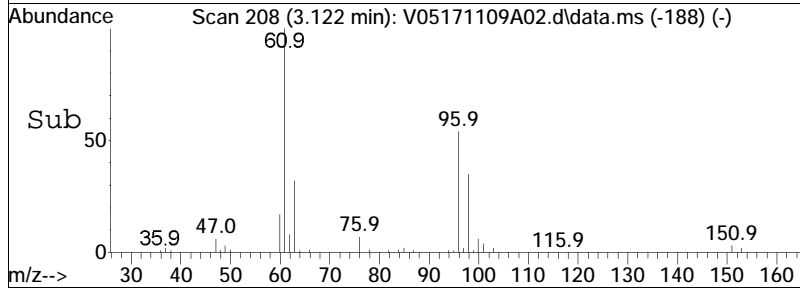
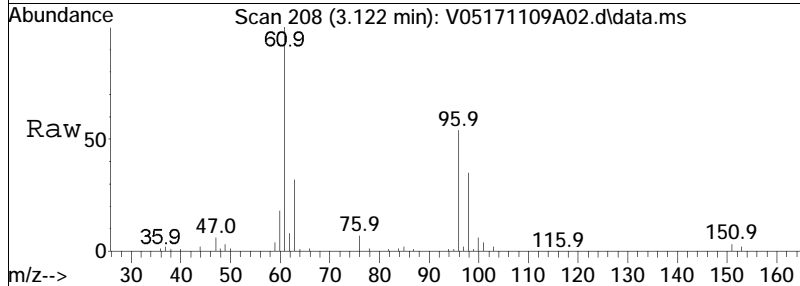
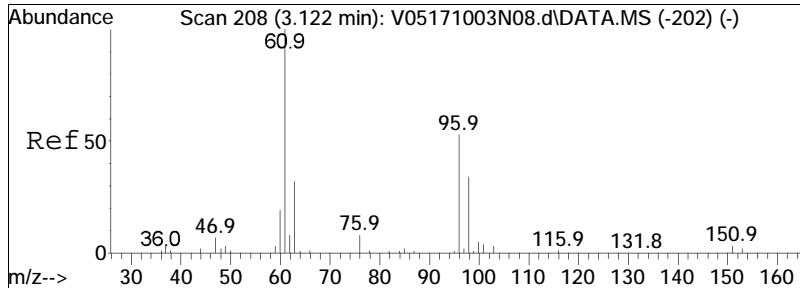




#7
 Trichlorofluoromethane
 Concen: 8.93 ug/L
 RT: 2.613 min Scan# 156
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

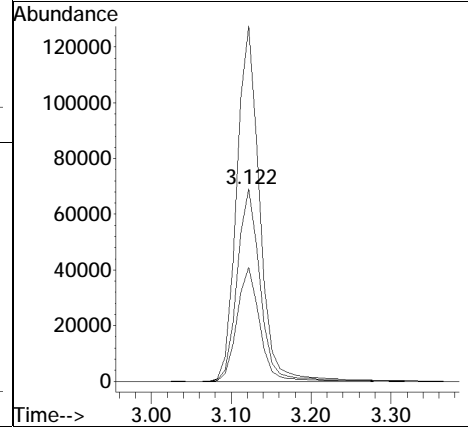
Tgt Ion	Resp	Lower	Upper
101	238999		
101	100		
103	64.6	52.6	79.0

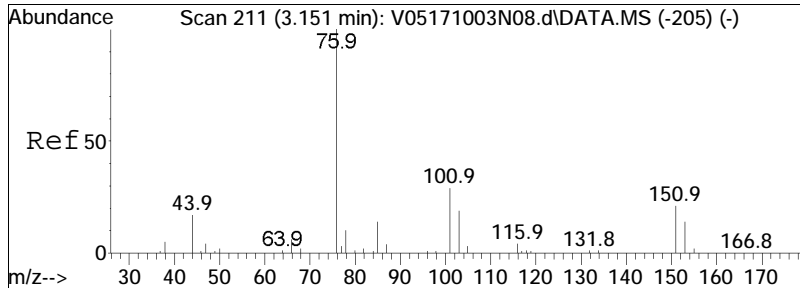




#10
 1,1-Dichloroethene
 Concen: 10.81 ug/L
 RT: 3.122 min Scan# 208
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

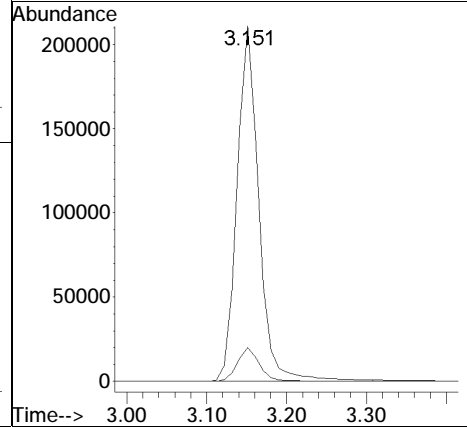
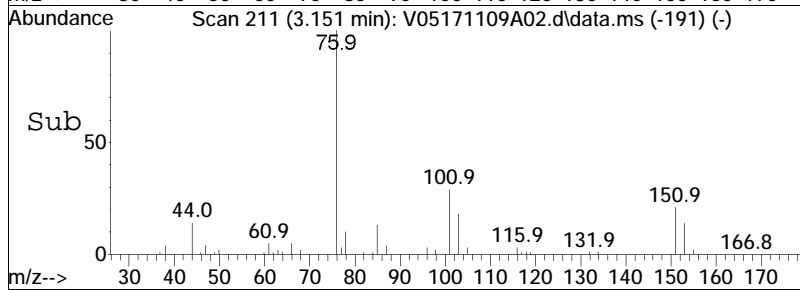
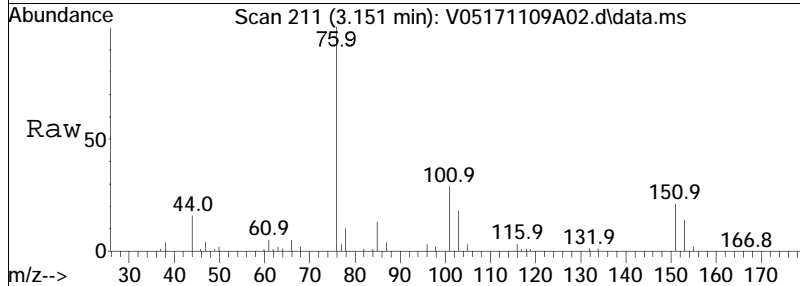
Tgt Ion	Resp	Lower	Upper
96	138589		
96	100		
61	183.5	151.0	226.4
63	59.1	47.7	71.5

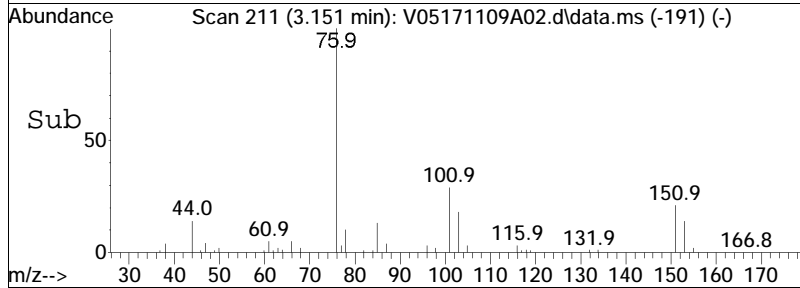
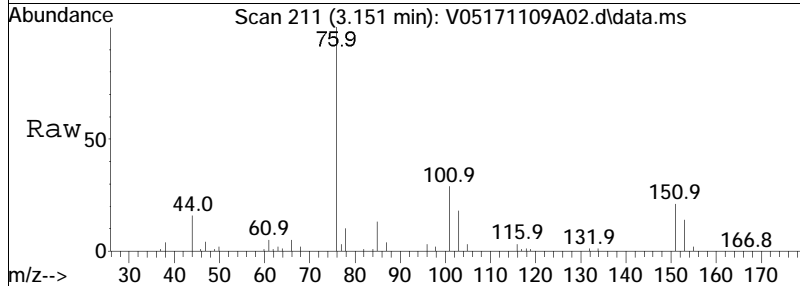
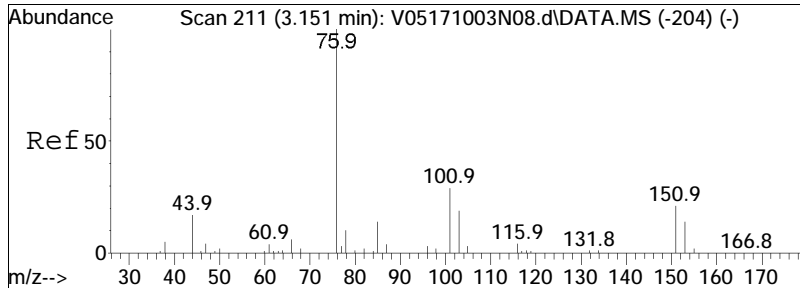




#11
 Carbon disulfide
 Concen: 11.84 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

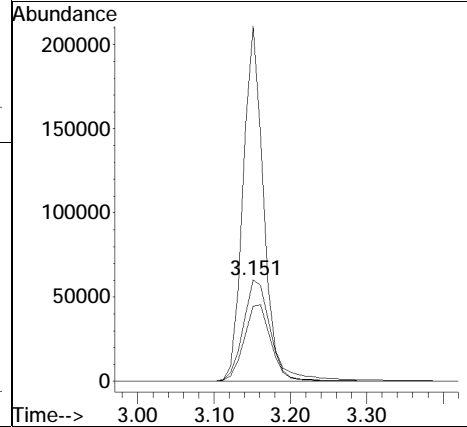
Tgt Ion: 76 Resp: 400459
 Ion Ratio Lower Upper
 76 100
 78 9.8 6.7 13.9

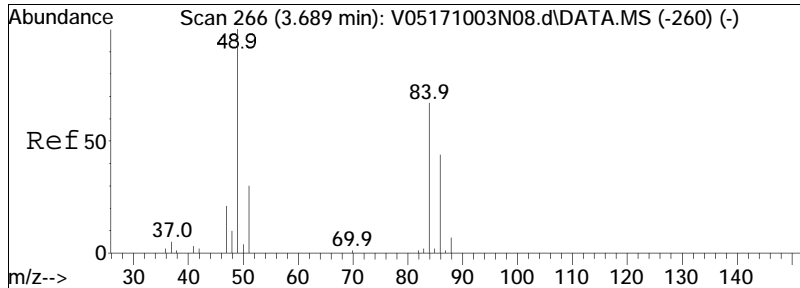




#12
 Freon-113
 Concen: 10.32 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

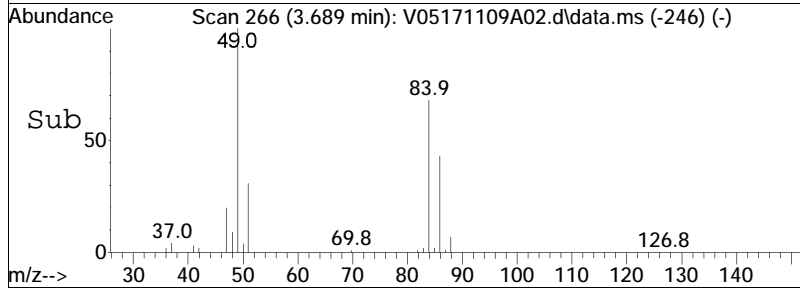
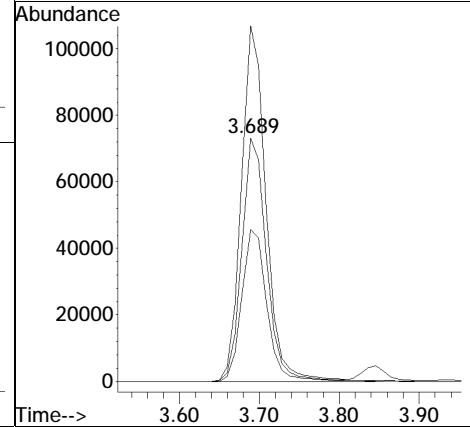
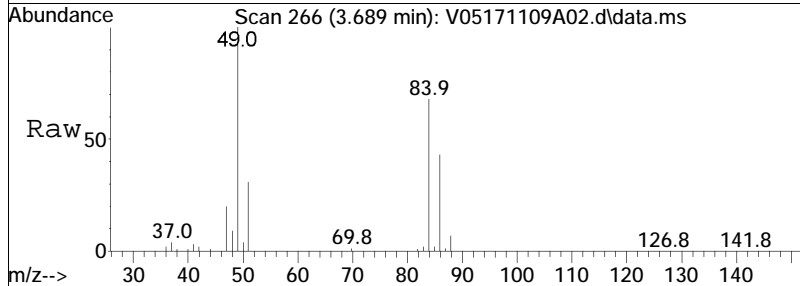
Tgt Ion	Resp	Lower	Upper
101	148384		
101	100		
151	76.2	59.2	88.8
76	269.9	213.0	319.4

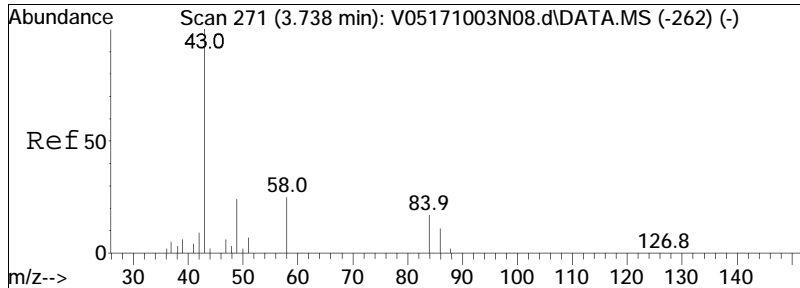




#15
 Methylene chloride
 Concen: 10.75 ug/L
 RT: 3.689 min Scan# 266
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

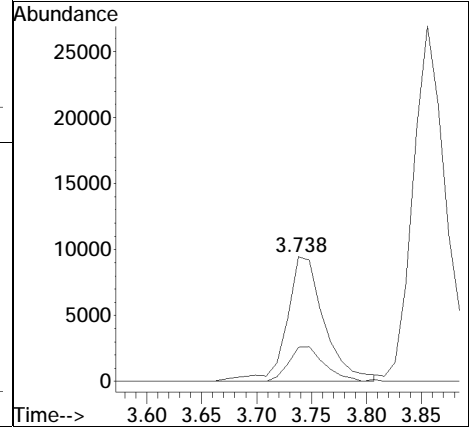
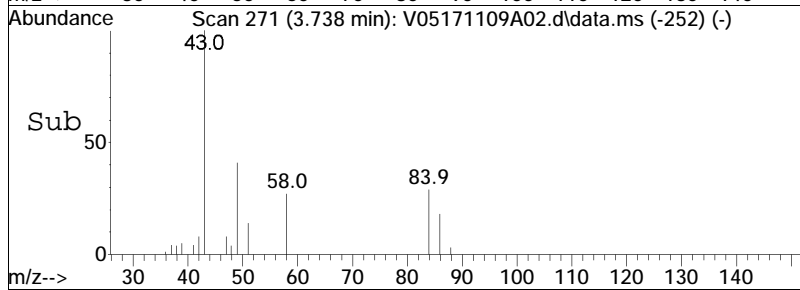
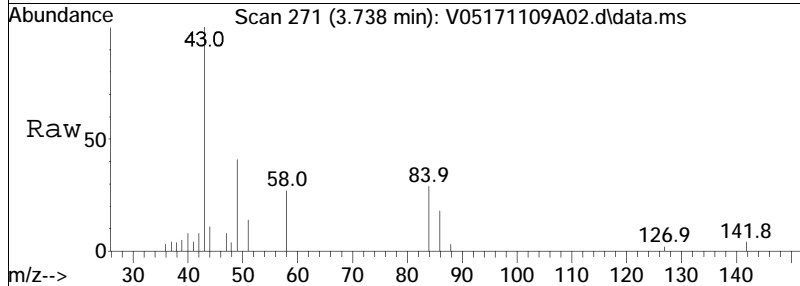
Tgt Ion	Resp	Lower	Upper
84	157441		
84	100		
86	63.5	41.9	86.9
49	144.6	95.1	197.5

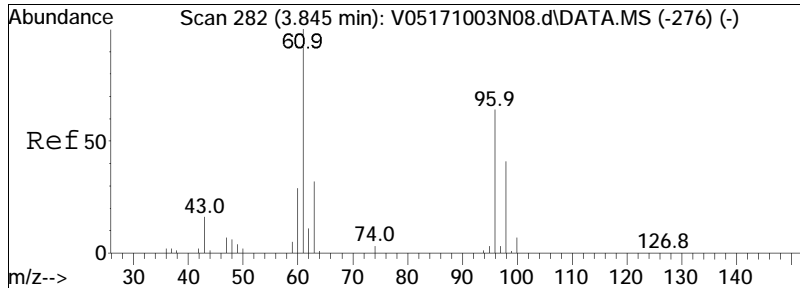




#17
 Acetone
 Concen: 9.96 ug/L
 RT: 3.738 min Scan# 271
 Delta R.T. -0.010 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

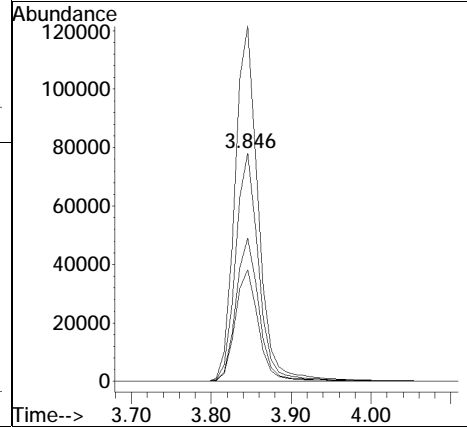
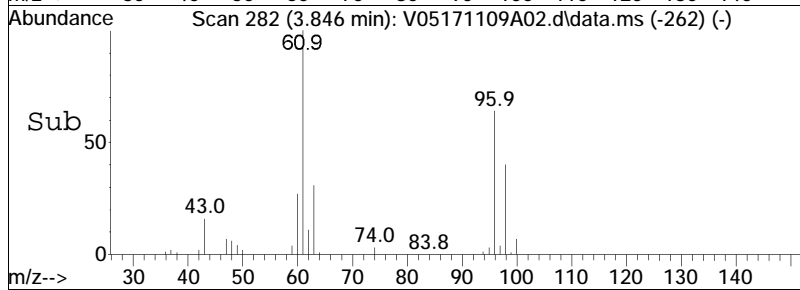
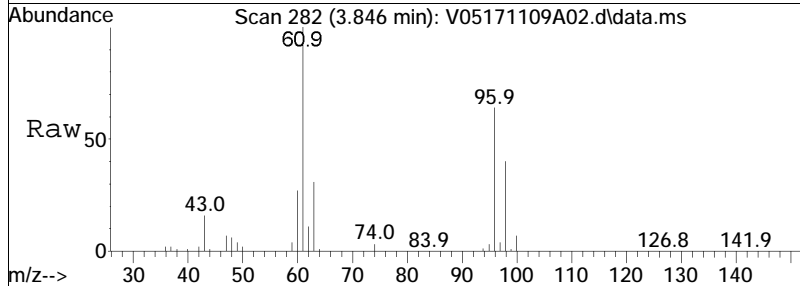
Tgt Ion: 43 Resp: 22559
 Ion Ratio Lower Upper
 43 100
 58 26.8 18.5 27.7

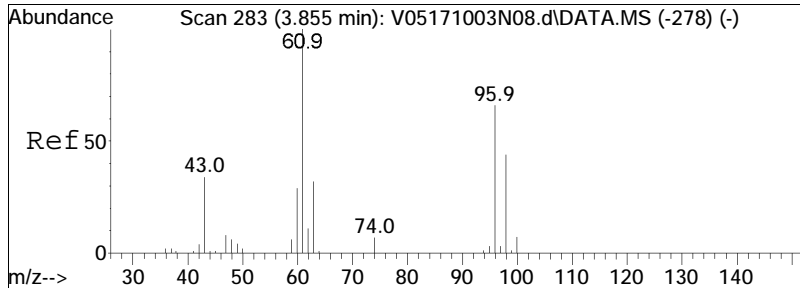




#18
 trans-1,2-Dichloroethene
 Concen: 10.40 ug/L
 RT: 3.846 min Scan# 282
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

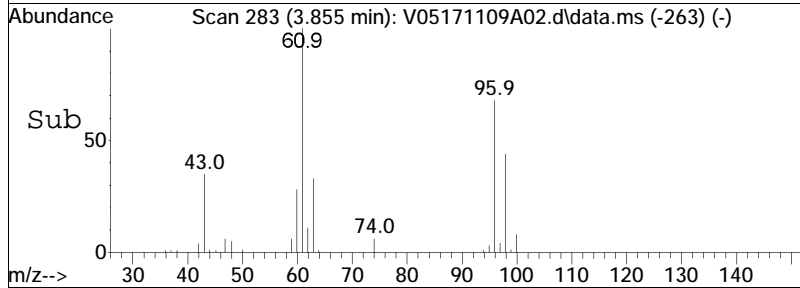
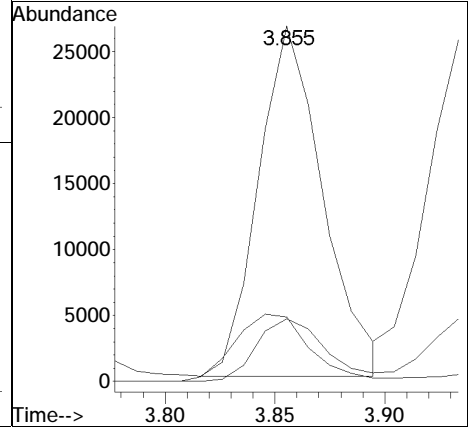
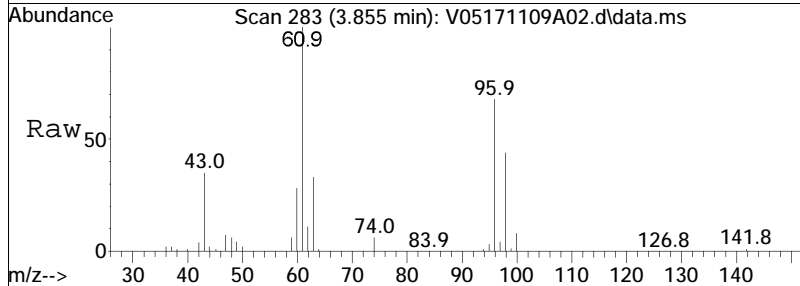
Tgt Ion	Resp	Lower	Upper
96	157737		
61	157.3	102.0	211.8
98	63.1	41.9	87.1
63	49.7	32.6	67.8

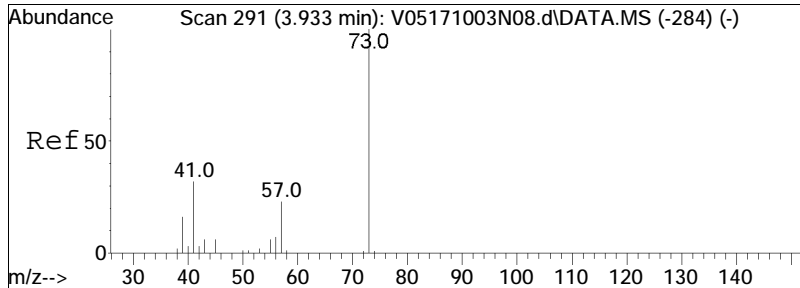




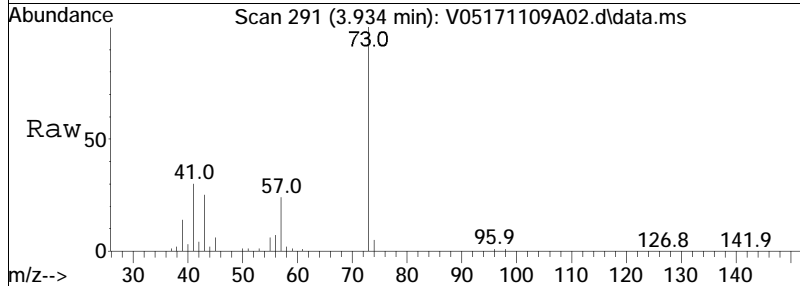
#19
 Methyl acetate
 Concen: 11.77 ug/L
 RT: 3.855 min Scan# 283
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

Tgt Ion:	43	74	59	Resp:	54117	Lower	Upper
Ion Ratio	100	19.2	22.7			15.3	22.9
						18.6	28.0

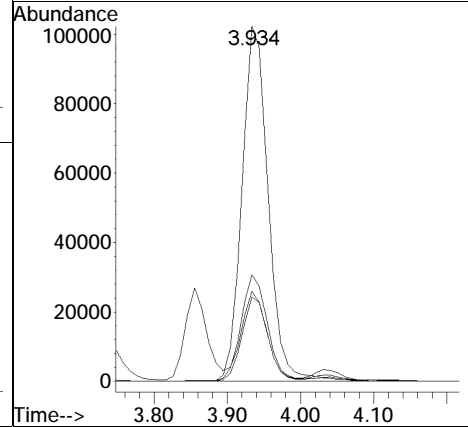
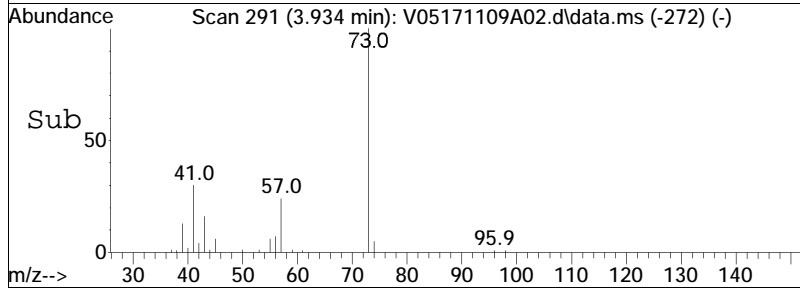


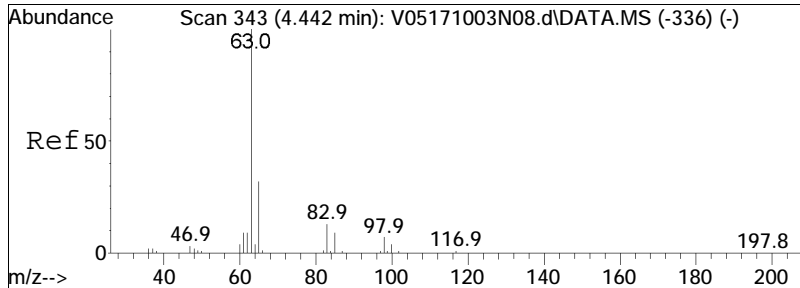


#20
 Methyl tert-butyl ether
 Concen: 10.49 ug/L
 RT: 3.934 min Scan# 291
 Delta R.T. -0.010 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09



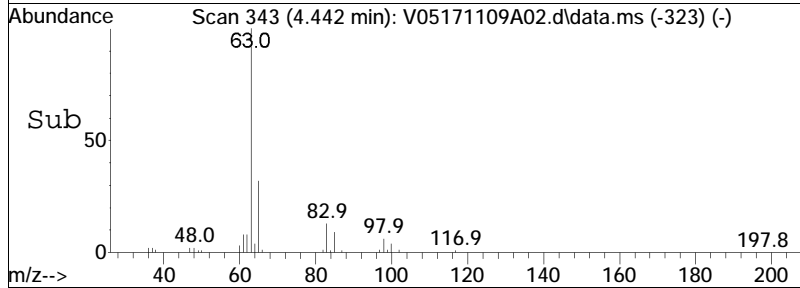
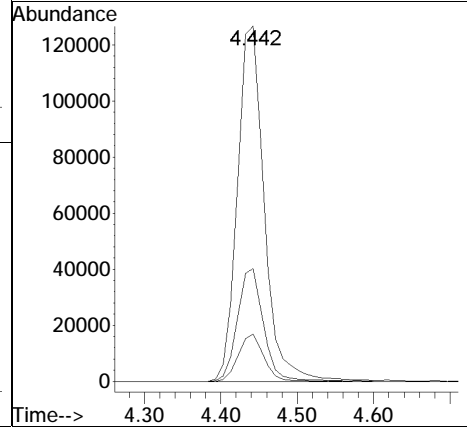
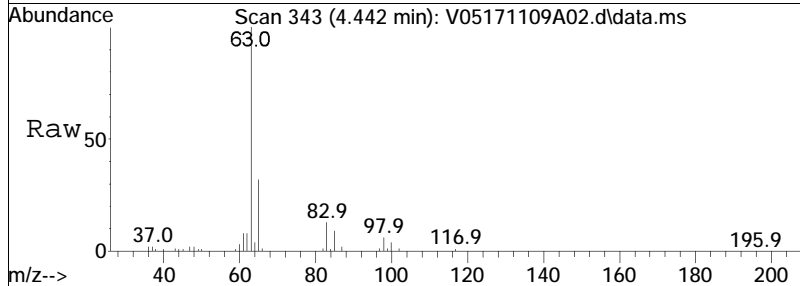
Tgt Ion	Resp	Lower	Upper
73	256363		
57	23.5	14.3	29.7
43	24.2	16.8	35.0
41	30.2	20.9	43.3

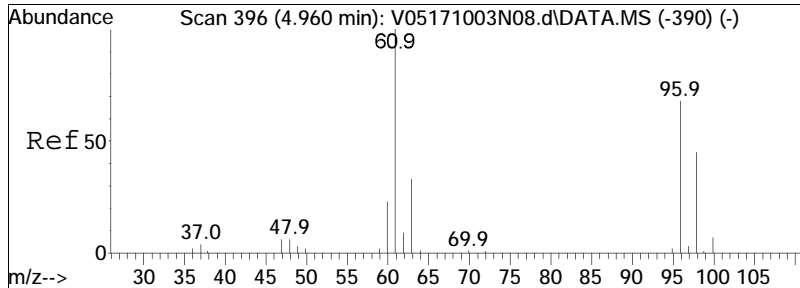




#23
 1,1-Dichloroethane
 Concen: 11.31 ug/L
 RT: 4.442 min Scan# 343
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

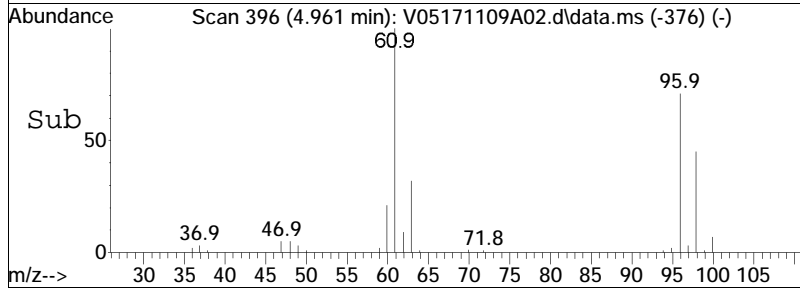
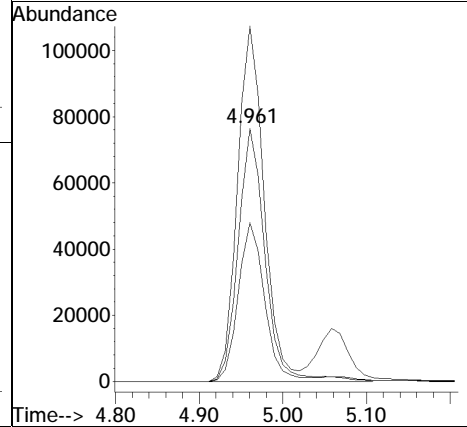
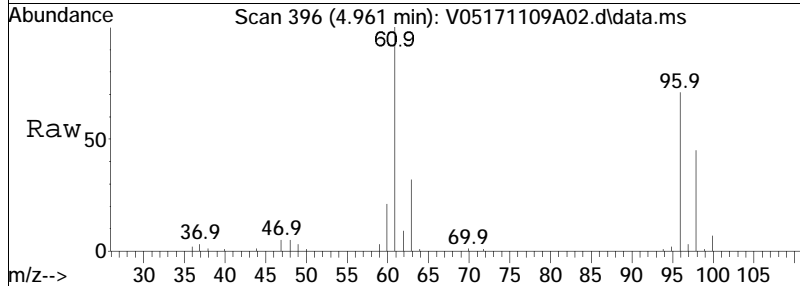
Tgt Ion	Resp	Lower	Upper
63	310915		
65	30.8	11.6	51.6
83	12.7	0.0	33.0

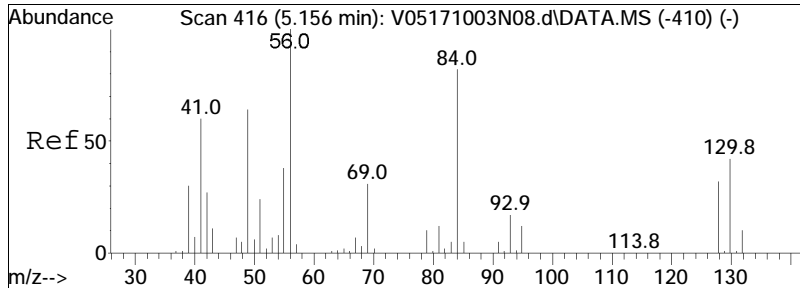




#28
 cis-1,2-Dichloroethene
 Concen: 10.40 ug/L
 RT: 4.961 min Scan# 396
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

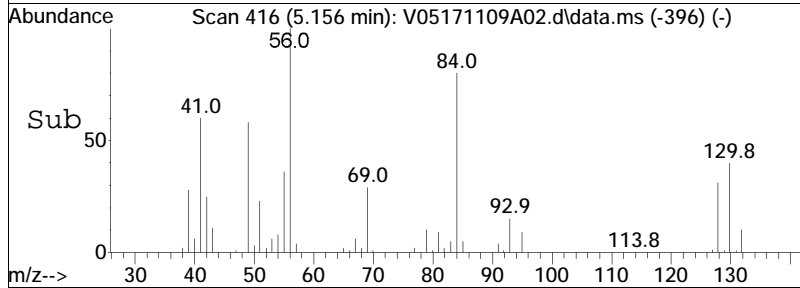
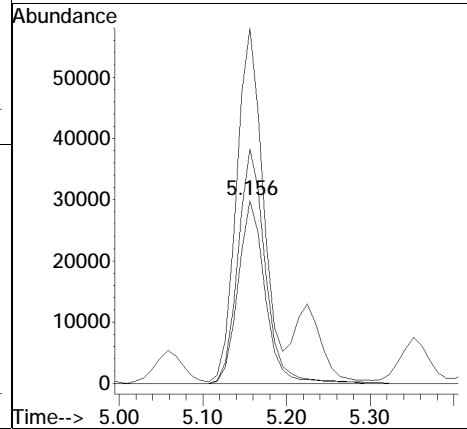
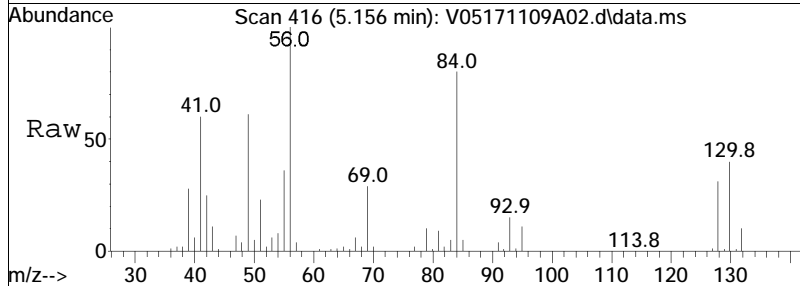
Tgt Ion	Resp	Lower	Upper
96	171290		
61	137.7	113.7	170.5
98	61.2	51.2	76.8

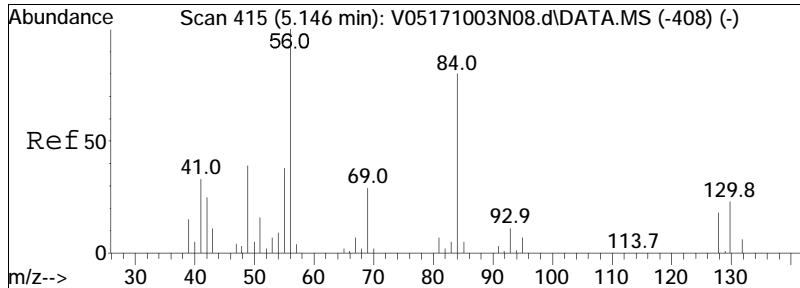




#30
 Bromochloromethane
 Concen: 8.92 ug/L
 RT: 5.156 min Scan# 416
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

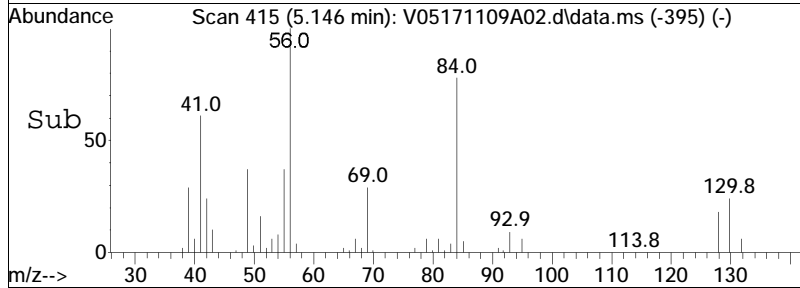
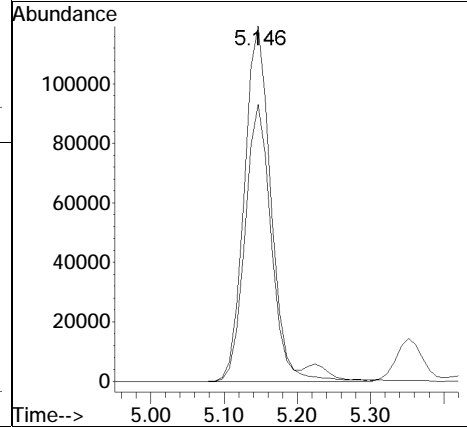
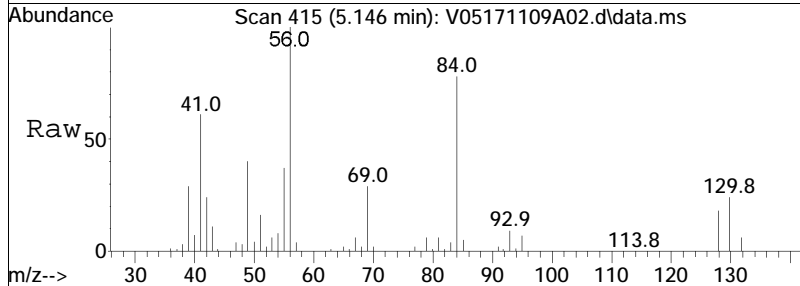
Tgt Ion	Resp	Lower	Upper
128	66877		
128	100		
49	190.5	155.4	233.0
130	129.7	101.9	152.9

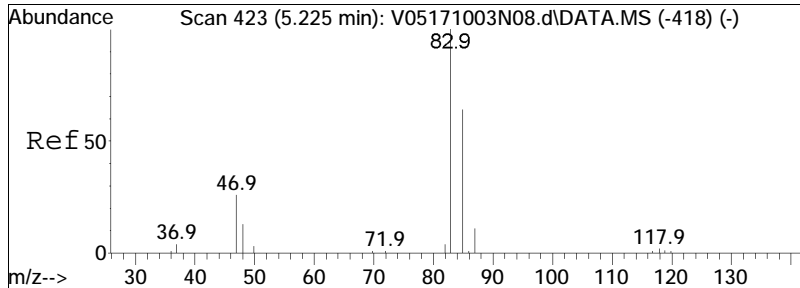




#31
 Cyclohexane
 Concen: 12.61 ug/L
 RT: 5.146 min Scan# 415
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

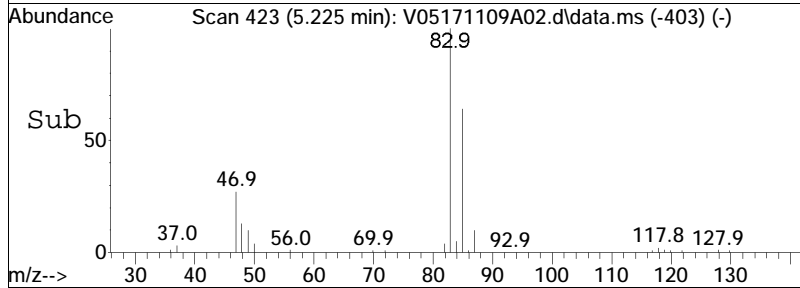
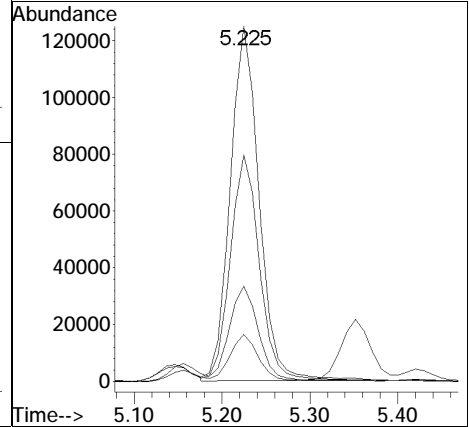
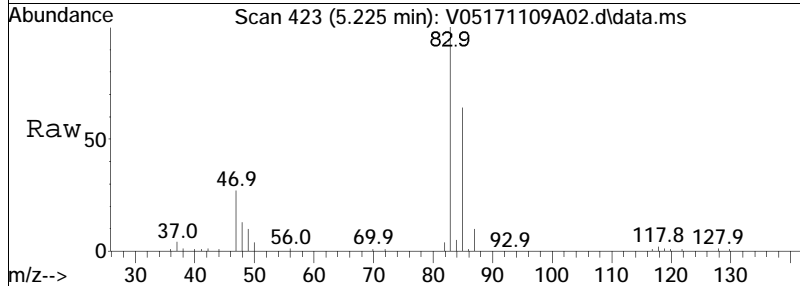
Tgt Ion	Resp	Lower	Upper
56	100		
84	75.9	51.3	106.5

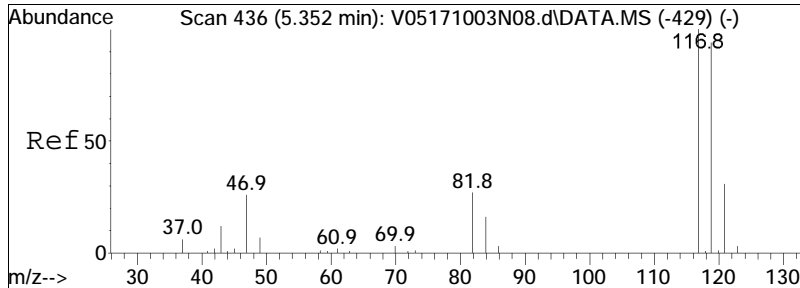




#32
 Chloroform
 Concen: 9.43 ug/L
 RT: 5.225 min Scan# 423
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

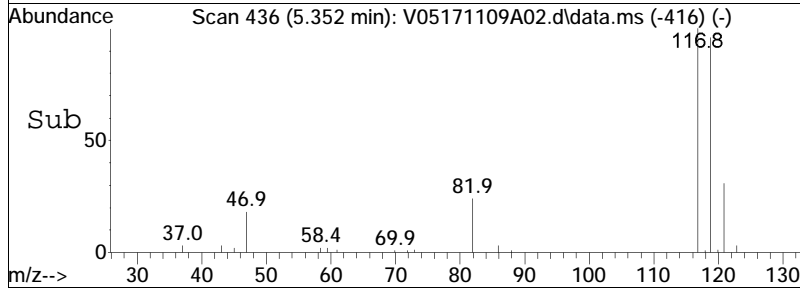
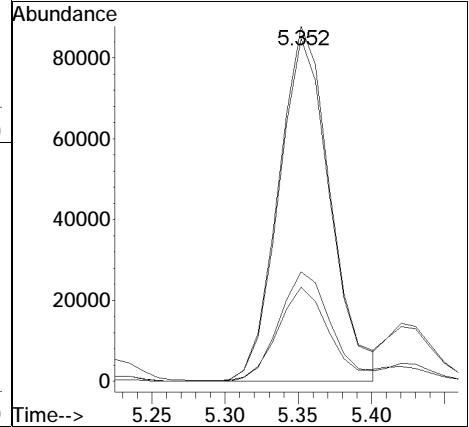
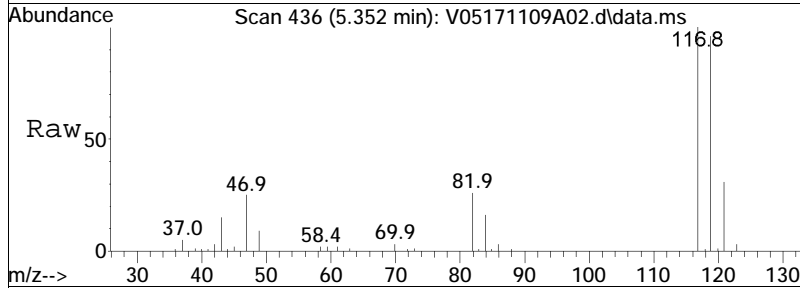
Tgt Ion	Resp	Lower	Upper
83	284721		
85	64.8	42.4	88.2
47	25.8	17.9	37.1
48	13.0	9.1	18.9

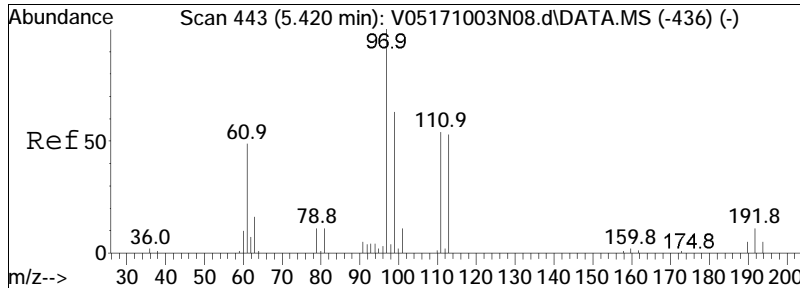




#34
 Carbon tetrachloride
 Concen: 8.25 ug/L
 RT: 5.352 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

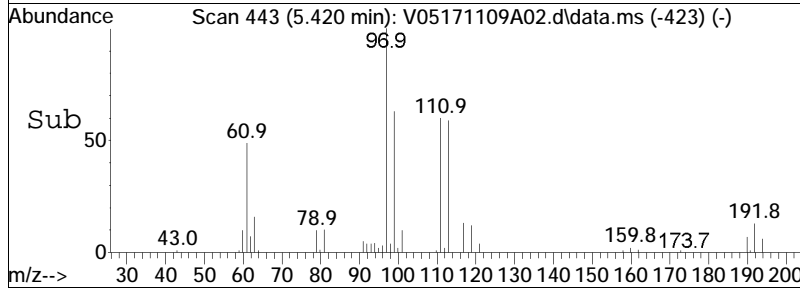
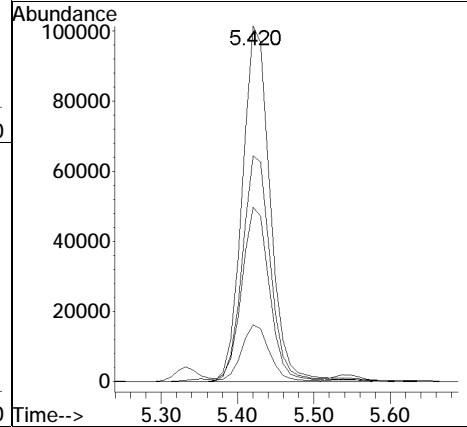
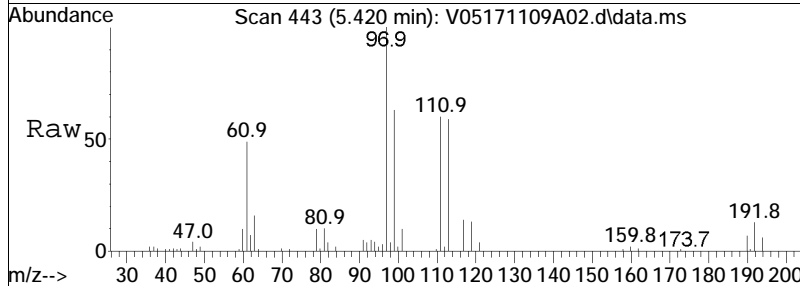
Tgt Ion	Resp	Lower	Upper
117	100		
119	95.6	62.2	129.2
121	30.9	20.2	41.9
82	26.3	17.6	36.6

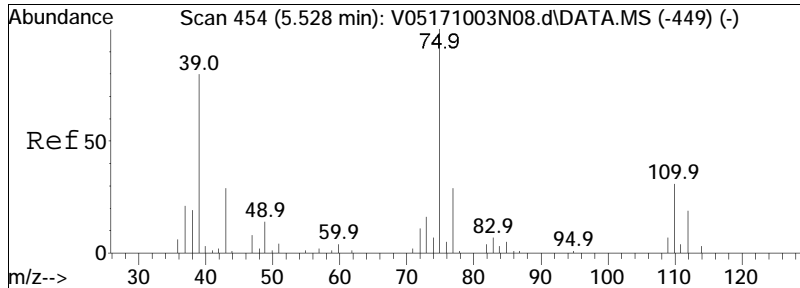




#37
 1,1,1-Trichloroethane
 Concen: 8.85 ug/L
 RT: 5.420 min Scan# 443
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

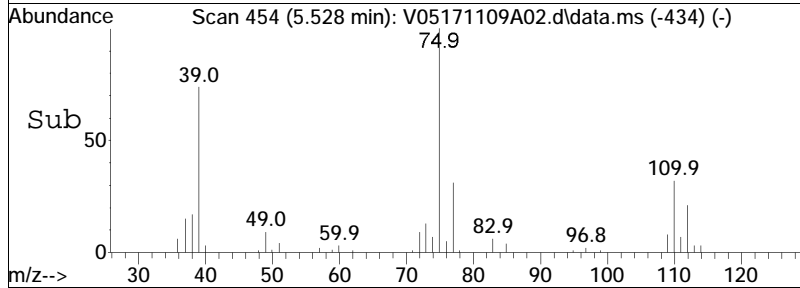
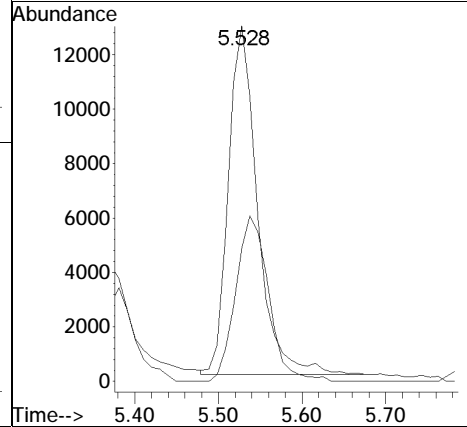
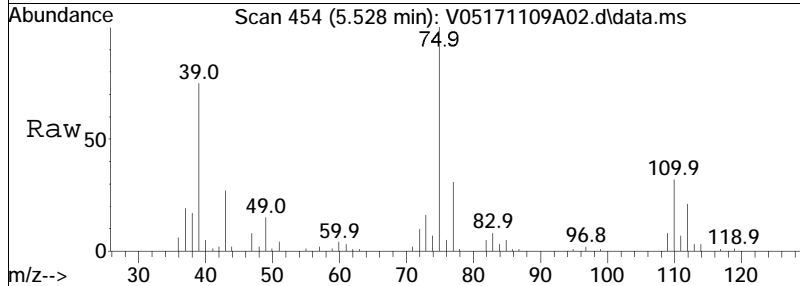
Tgt Ion	Resp	Lower	Upper
97	258152		
99	64.0	42.3	87.9
61	48.2	31.3	64.9
63	15.7	10.1	20.9

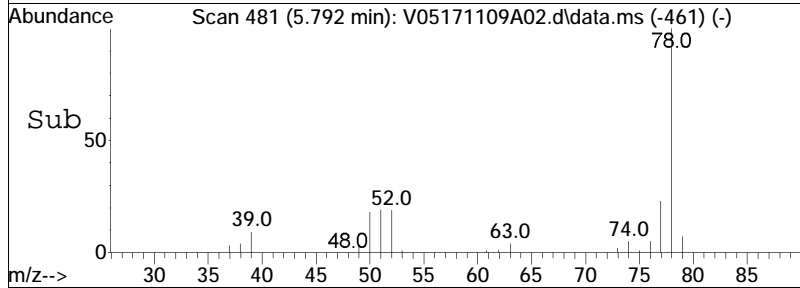
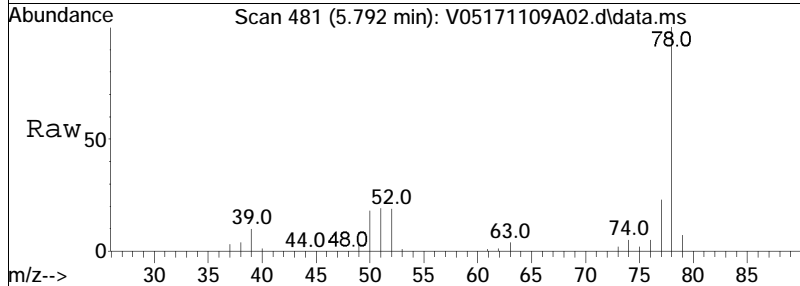
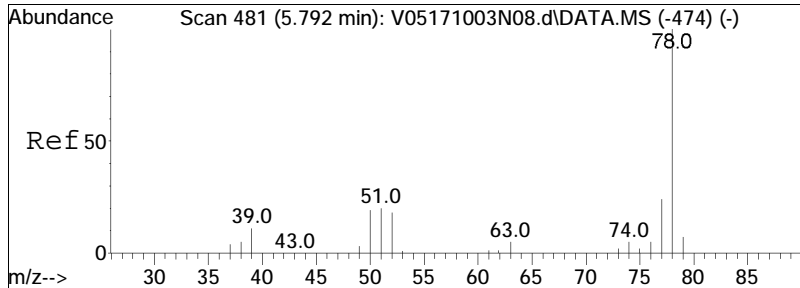




#39
 2-Butanone
 Concen: 11.54 ug/L
 RT: 5.528 min Scan# 454
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

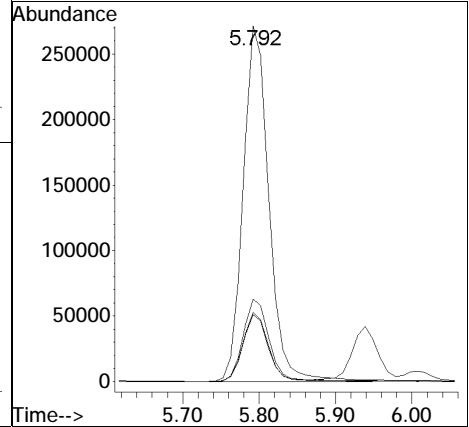
Tgt Ion: 43 Resp: 30939
 Ion Ratio Lower Upper
 43 100
 72 53.7 44.2 66.4

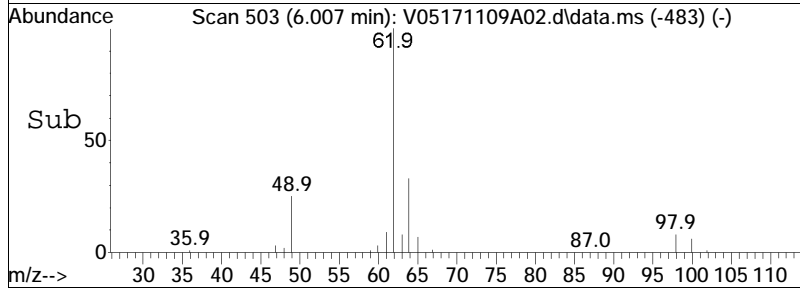
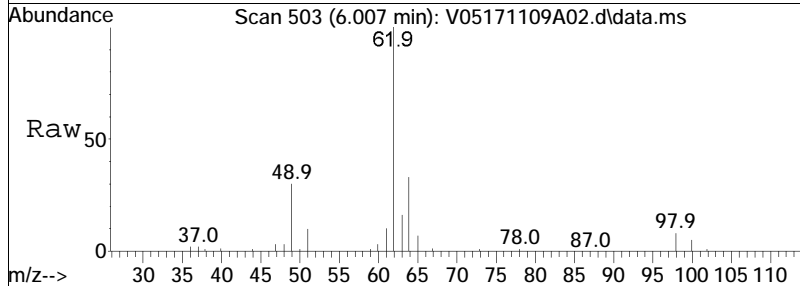
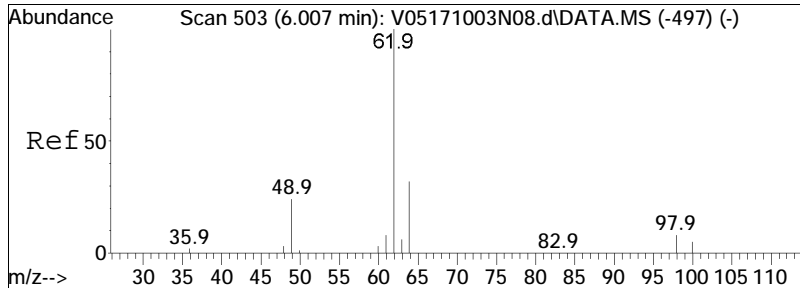




#41
 Benzene
 Concen: 10.86 ug/L
 RT: 5.792 min Scan# 481
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

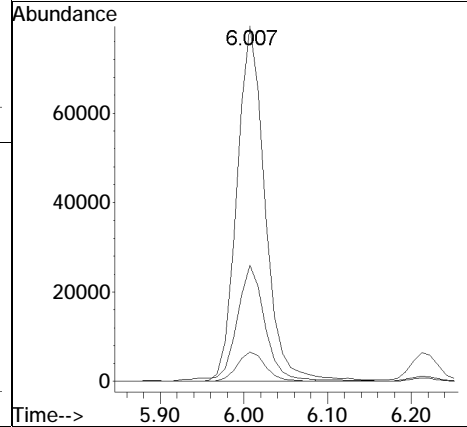
Tgt Ion	Resp	Lower	Upper
78	100		
77	23.4	15.3	31.9
51	19.0	12.5	25.9
52	18.5	11.4	23.6

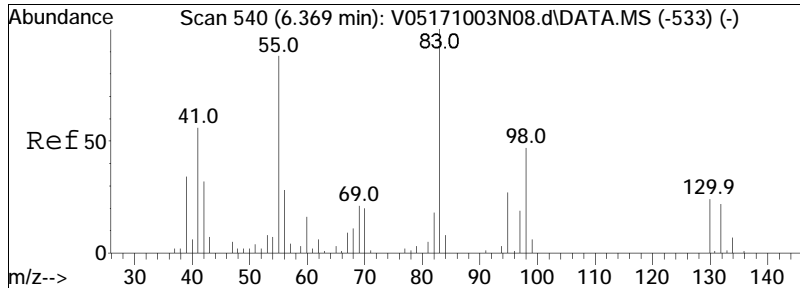




#44
 1,2-Dichloroethane
 Concen: 9.34 ug/L
 RT: 6.007 min Scan# 503
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

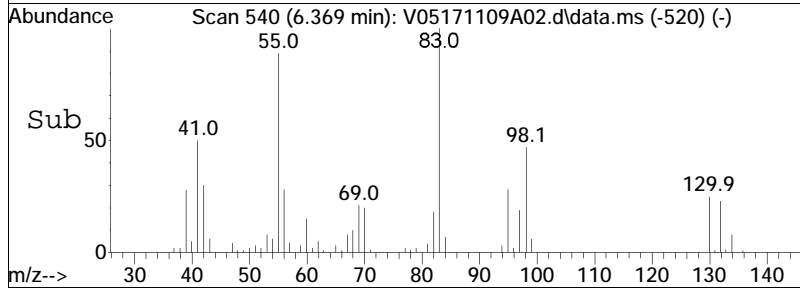
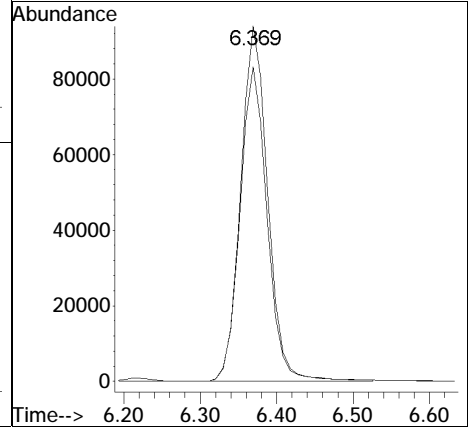
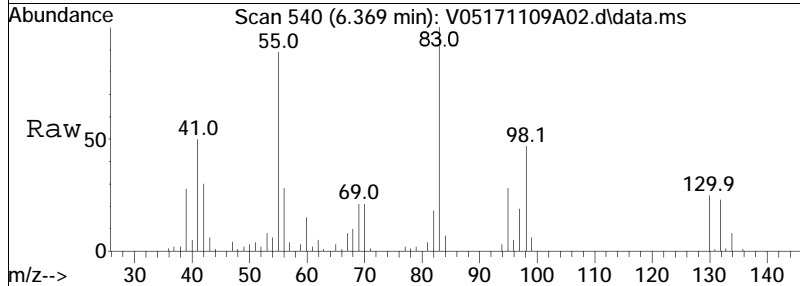
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
62	100		
64	33.4	13.1	53.1
98	8.4	0.0	27.8

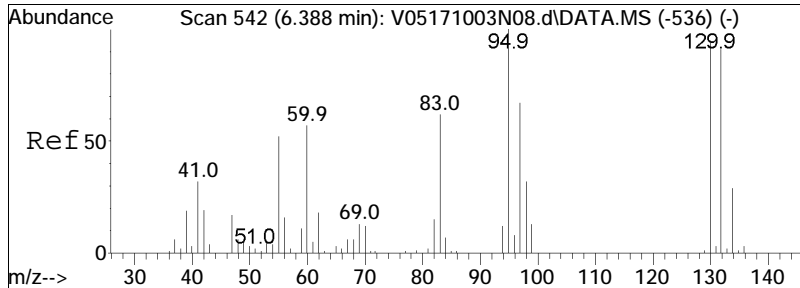




#47
 Methyl cyclohexane
 Concen: 10.99 ug/L
 RT: 6.369 min Scan# 540
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

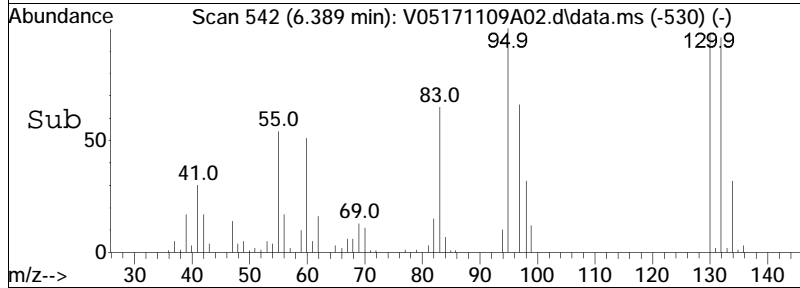
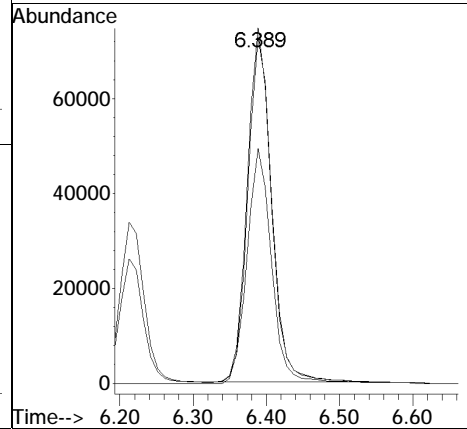
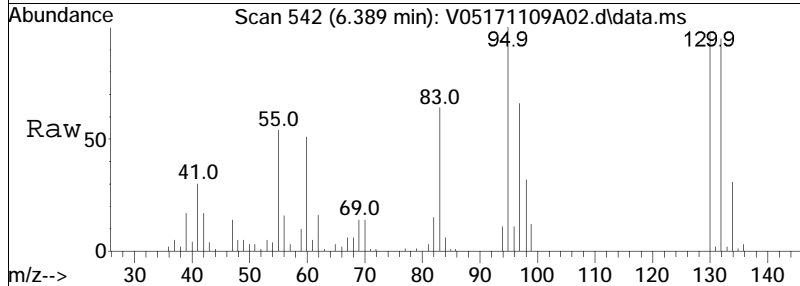
Tgt Ion: 83 Resp: 231904
 Ion Ratio Lower Upper
 83 100
 55 88.8 69.5 104.3

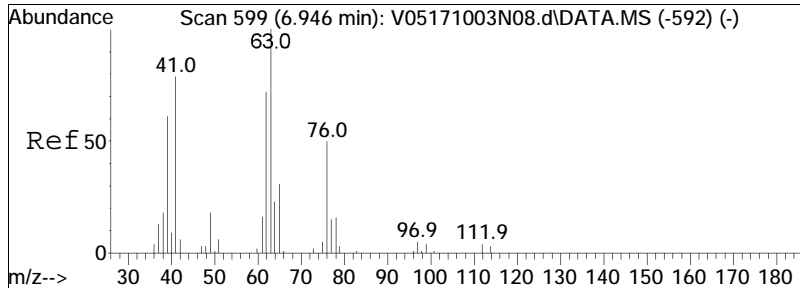




#48
 Trichloroethene
 Concen: 9.32 ug/L
 RT: 6.389 min Scan# 542
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

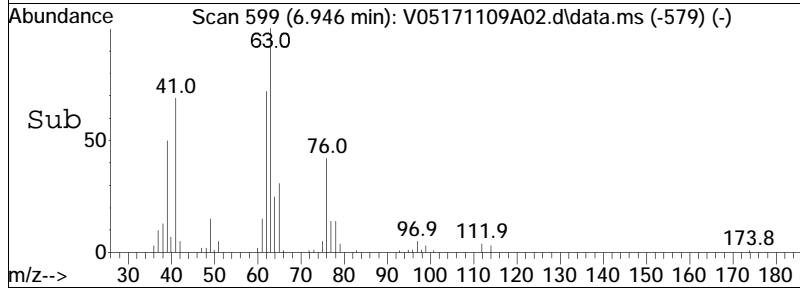
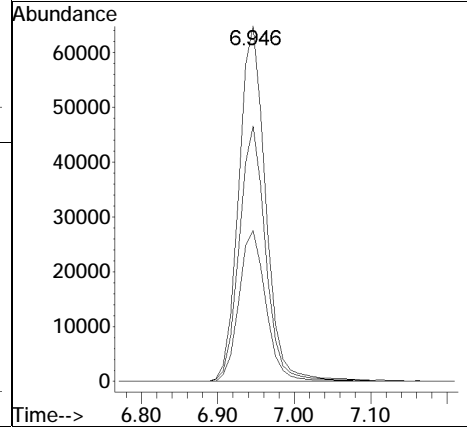
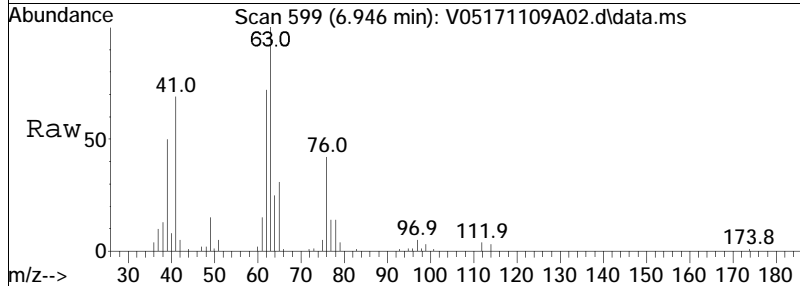
Tgt Ion:	95	Resp:	170873
Ion Ratio	Lower	Upper	
95	100		
97	66.8	53.5	80.3
130	99.1	75.9	113.9

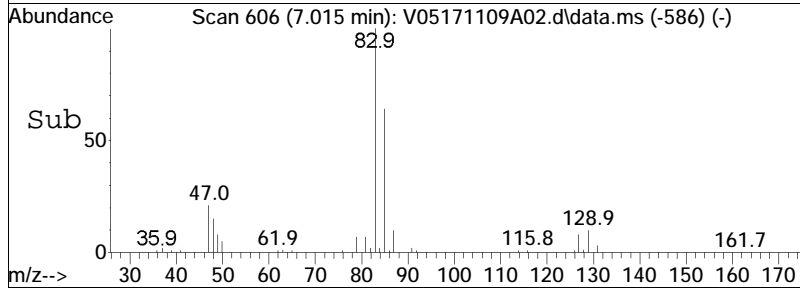
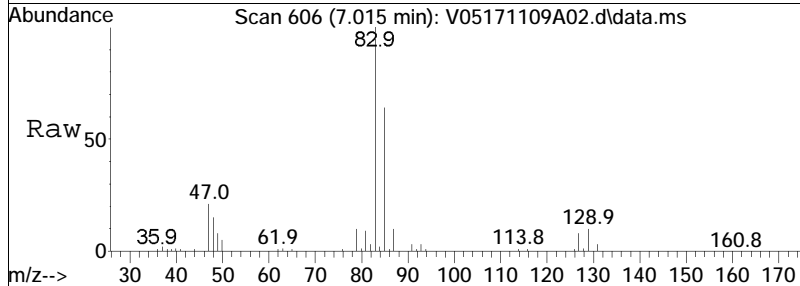
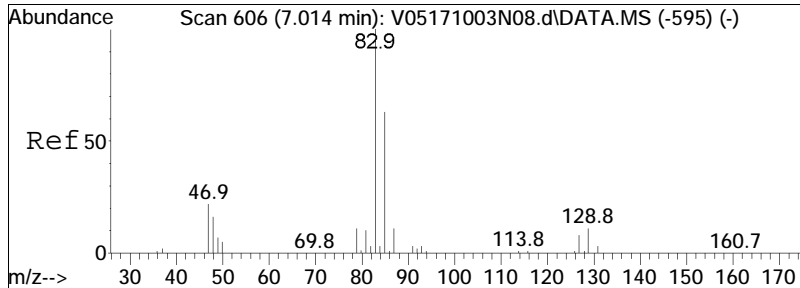




#51
 1,2-Dichloropropane
 Concen: 11.85 ug/L
 RT: 6.946 min Scan# 599
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

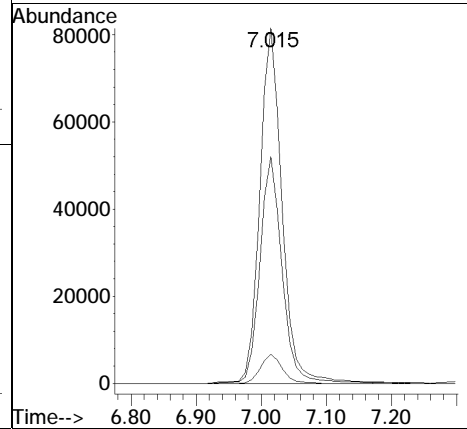
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
63	100		
62	70.6	57.4	86.2
76	42.6	39.8	59.6

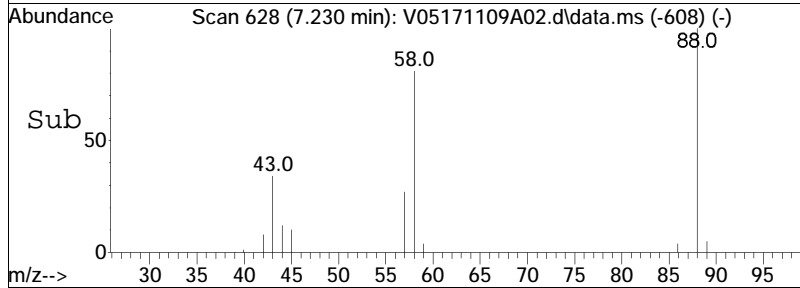
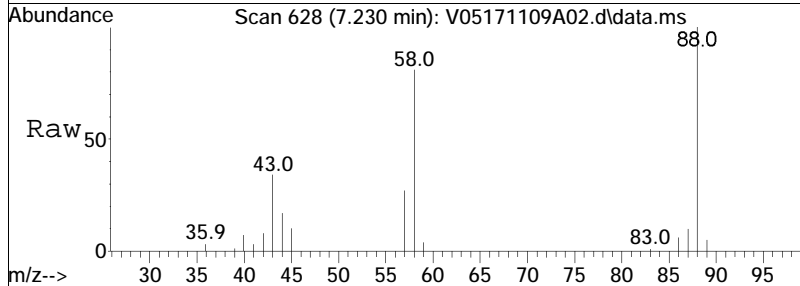
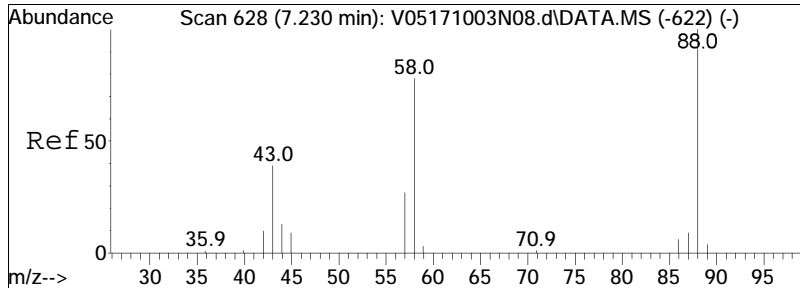




#54
 Bromodichloromethane
 Concen: 9.14 ug/L
 RT: 7.015 min Scan# 606
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

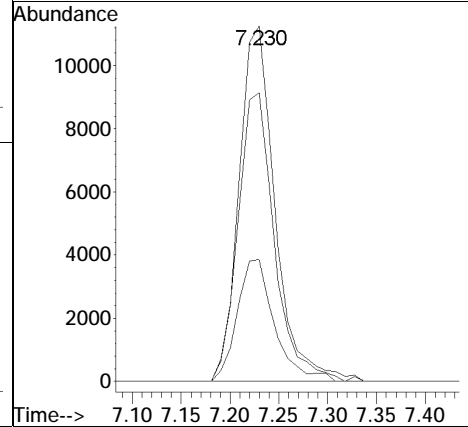
Tgt Ion	Resp	Lower	Upper
83	193776		
83	100		
85	63.4	50.3	75.5
127	8.0	6.6	9.8

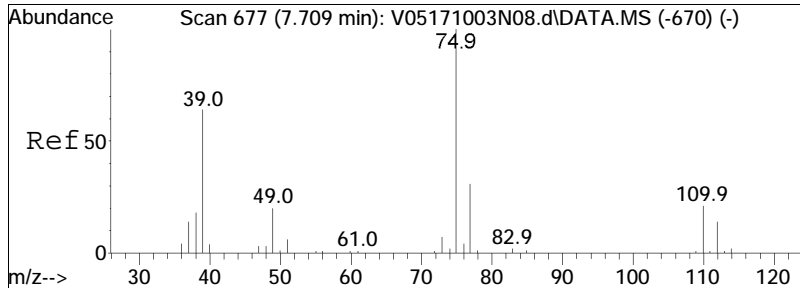




#57
 1,4-Dioxane
 Concen: 531.27 ug/L
 RT: 7.230 min Scan# 628
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

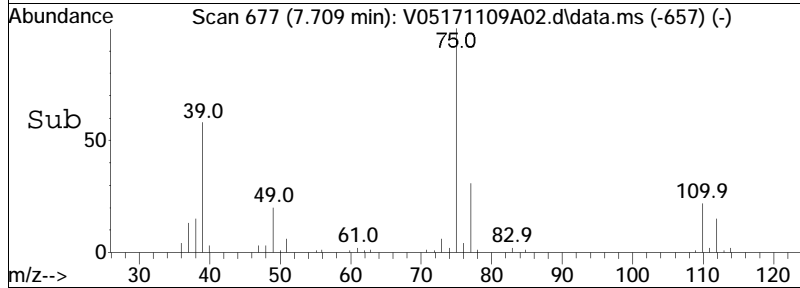
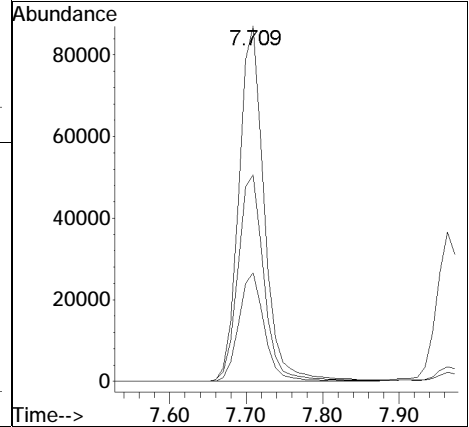
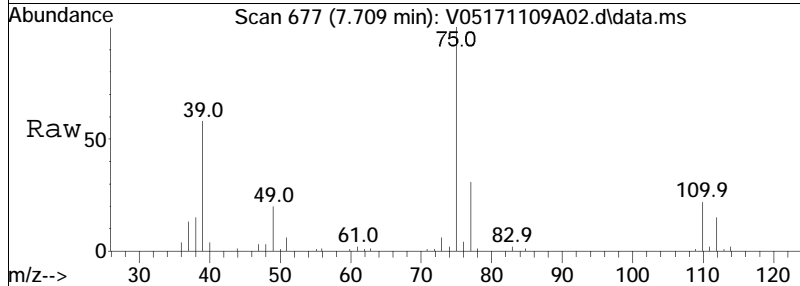
Tgt Ion:	88	Resp:	28879
Ion Ratio	Lower	Upper	
88	100		
58	82.3	61.5	92.3
43	35.6	30.5	45.7

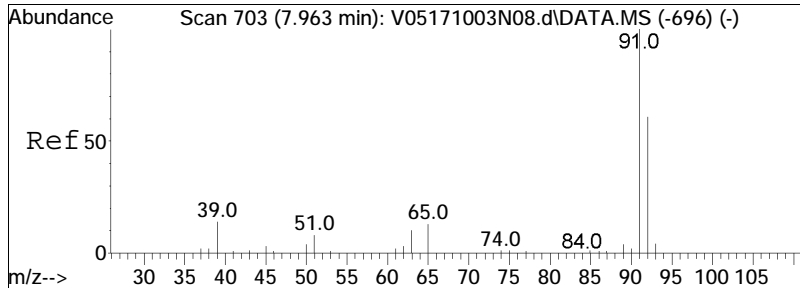




#58
 cis-1,3-Dichloropropene
 Concen: 8.66 ug/L
 RT: 7.709 min Scan# 677
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

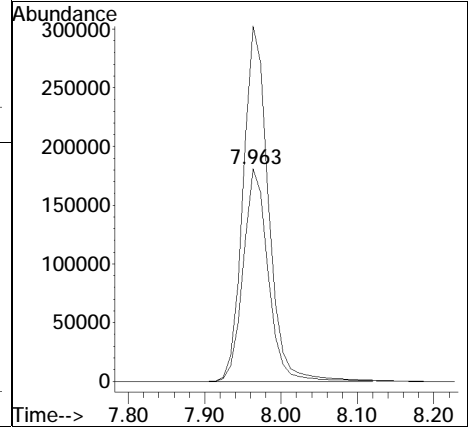
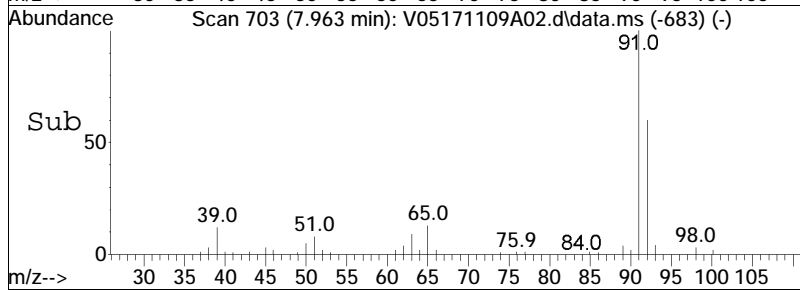
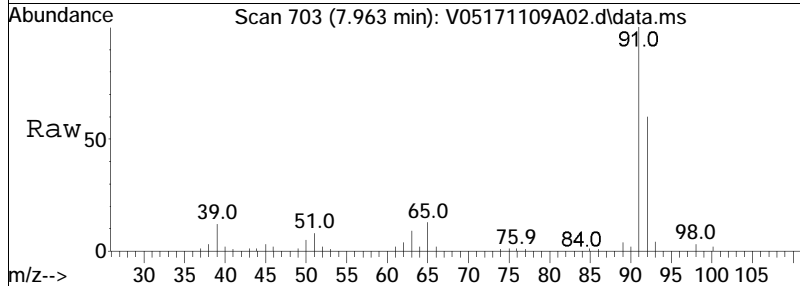
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.1	37.7
39	59.8	53.4	80.2

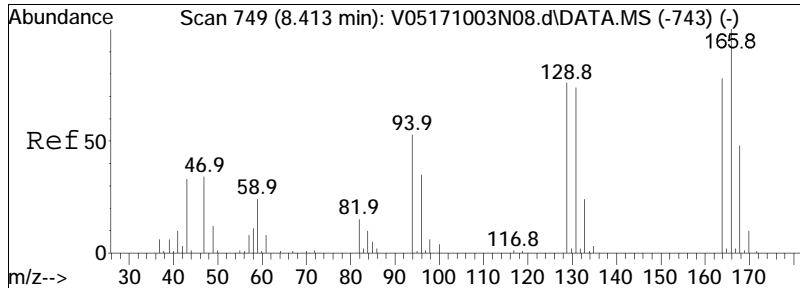




#61
 Toluene
 Concen: 11.02 ug/L
 RT: 7.963 min Scan# 703
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

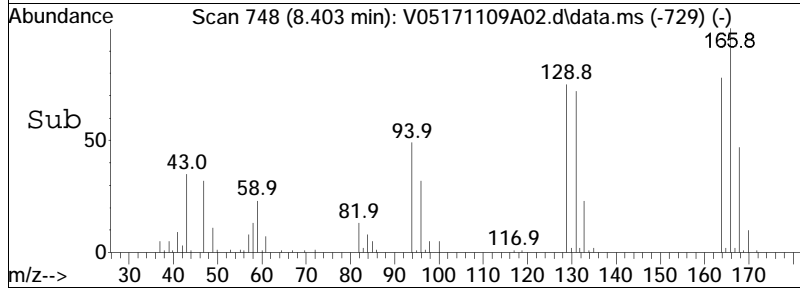
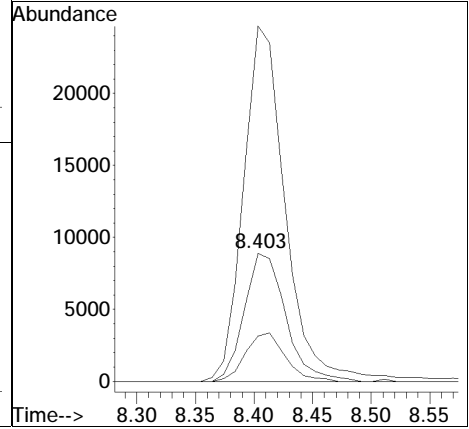
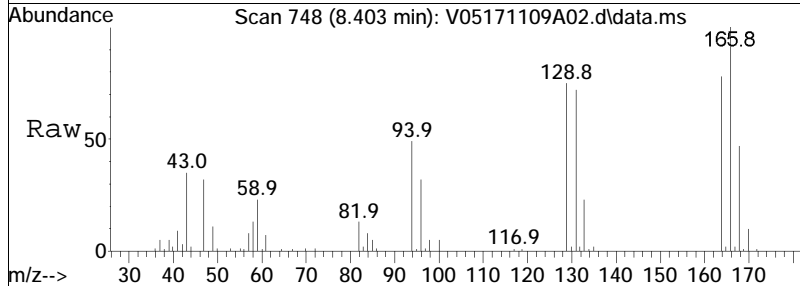
Tgt Ion: 92 Resp: 411661
 Ion Ratio Lower Upper
 92 100
 91 169.0 133.0 199.4

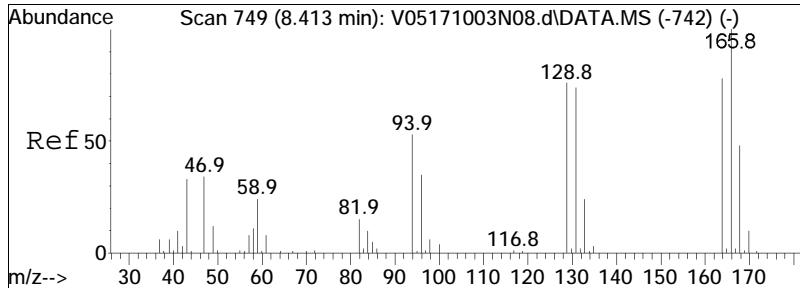




#62
 4-Methyl-2-pentanone
 Concen: 11.71 ug/L
 RT: 8.403 min Scan# 748
 Delta R.T. -0.010 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

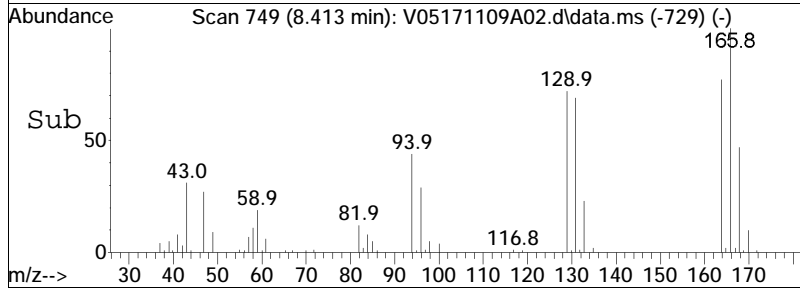
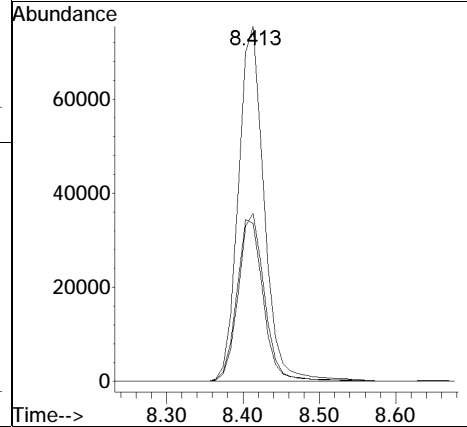
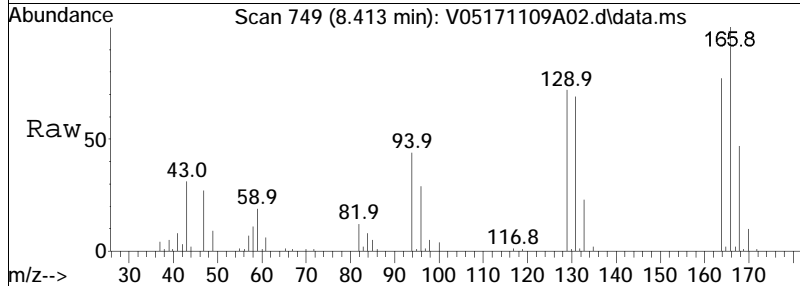
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
58	100		
100	36.5	29.3	43.9
43	283.5	247.4	371.0

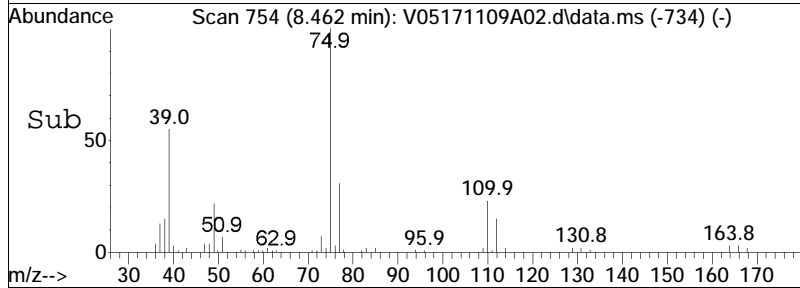
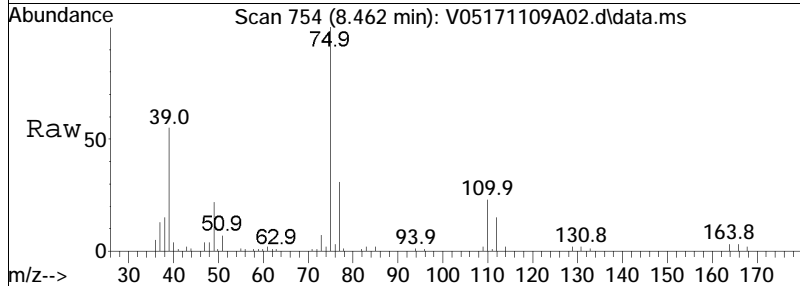
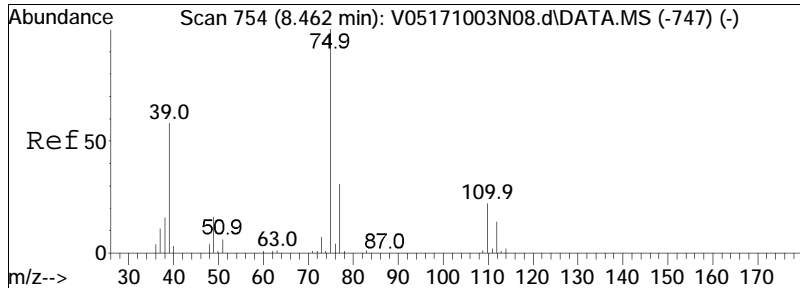




#63
 Tetrachloroethene
 Concen: 8.60 ug/L
 RT: 8.413 min Scan# 749
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

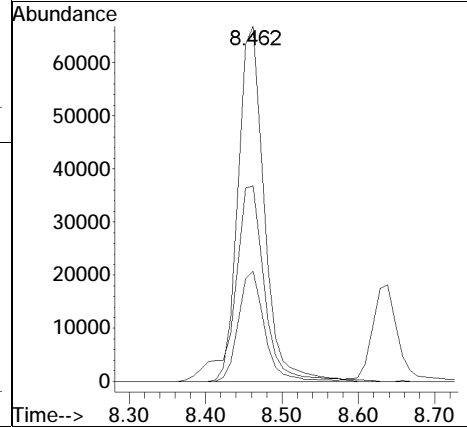
Tgt Ion	Resp	Lower	Upper
166	100		
168	47.8	27.2	67.2
94	47.0	35.8	75.8

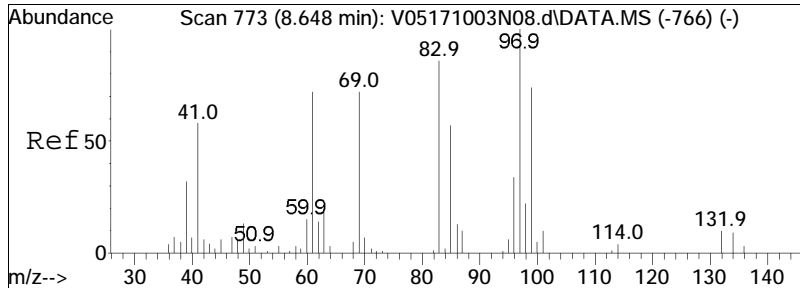




#65
 trans-1,3-Dichloropropene
 Concen: 8.98 ug/L
 RT: 8.462 min Scan# 754
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

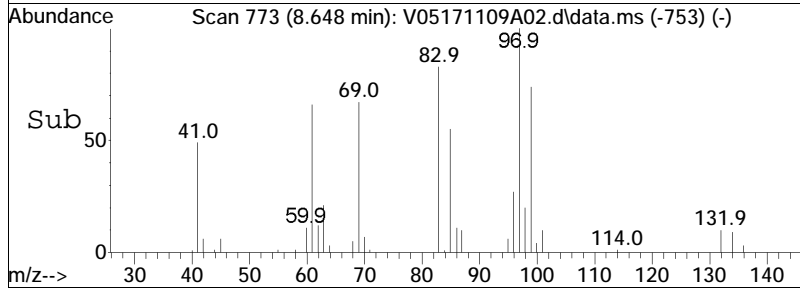
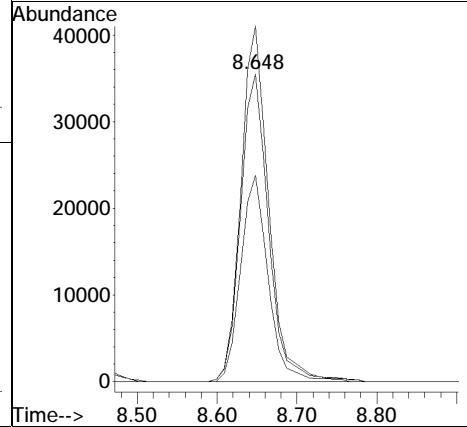
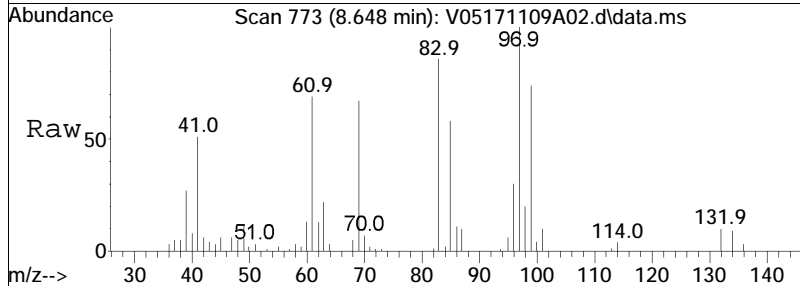
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
75	100		
77	31.0	10.9	50.9
39	62.5	48.1	88.1

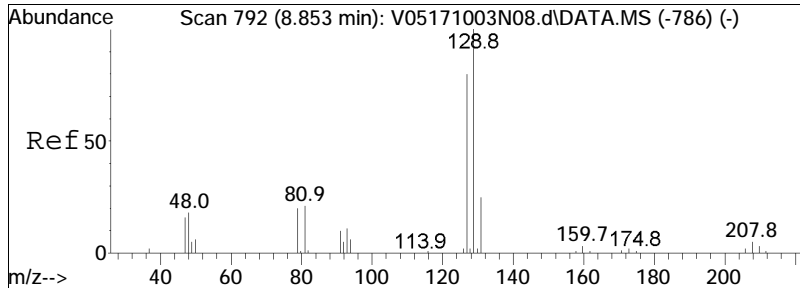




#68
 1,1,2-Trichloroethane
 Concen: 11.35 ug/L
 RT: 8.648 min Scan# 773
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

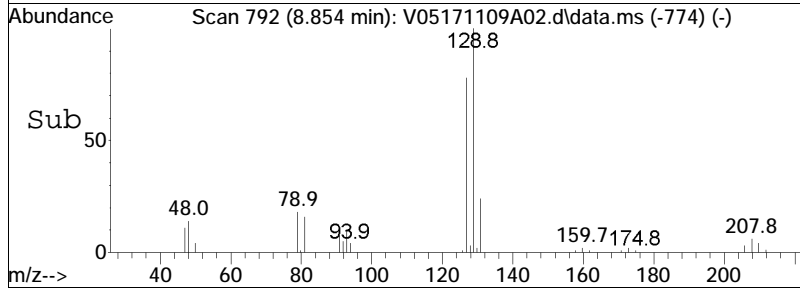
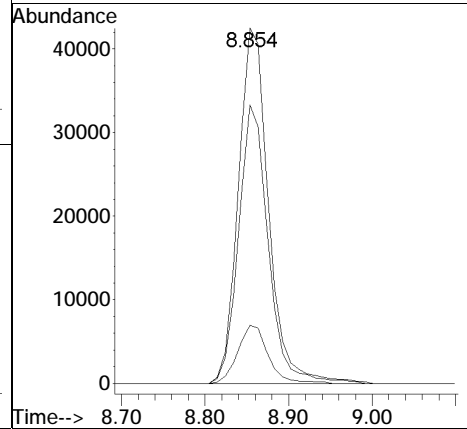
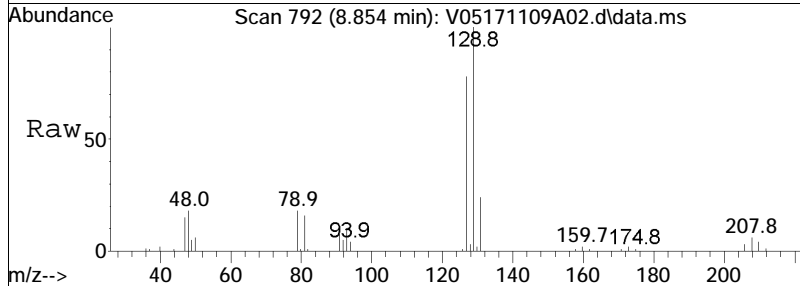
Tgt Ion	Resp	Lower	Upper
83	93443		
83	100		
97	113.9	93.6	133.6
85	66.7	46.9	86.9

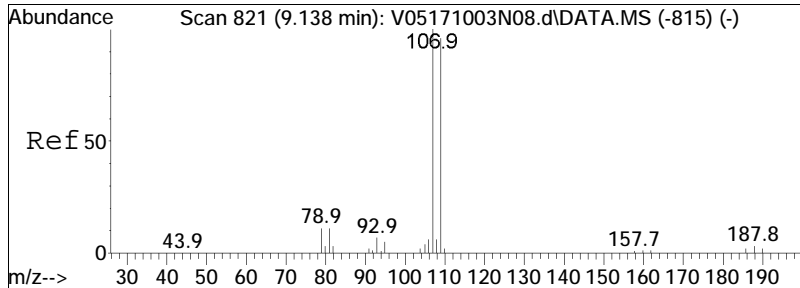




#69
 Chlorodibromomethane
 Concen: 8.98 ug/L
 RT: 8.854 min Scan# 792
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

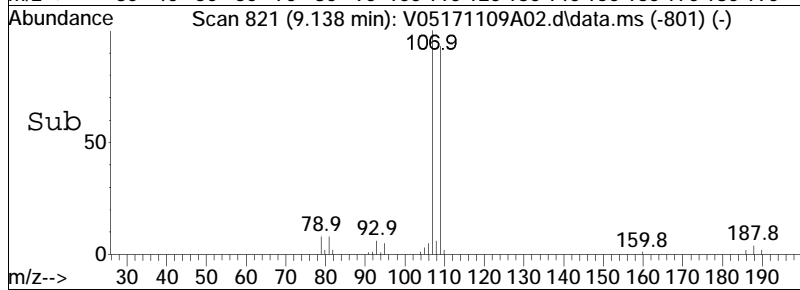
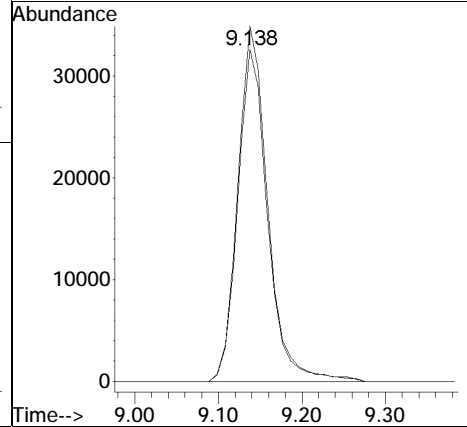
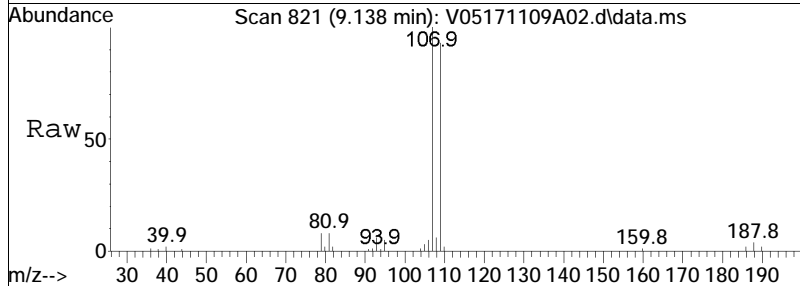
Tgt Ion	Ratio	Lower	Upper
129	100		
81	16.4	0.0	40.0
127	76.6	57.9	97.9

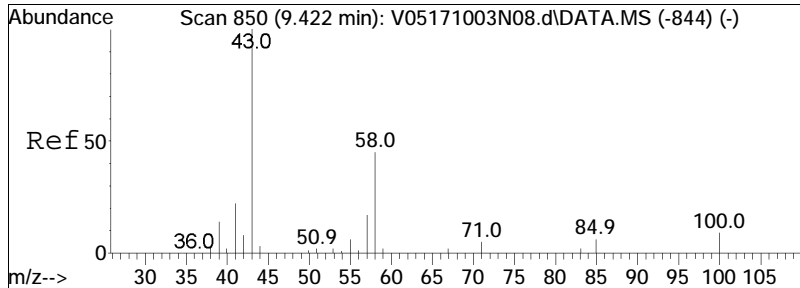




#71
 1,2-Dibromoethane
 Concen: 10.26 ug/L
 RT: 9.138 min Scan# 821
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

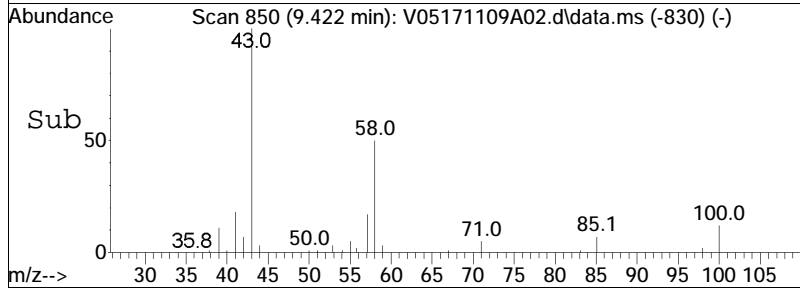
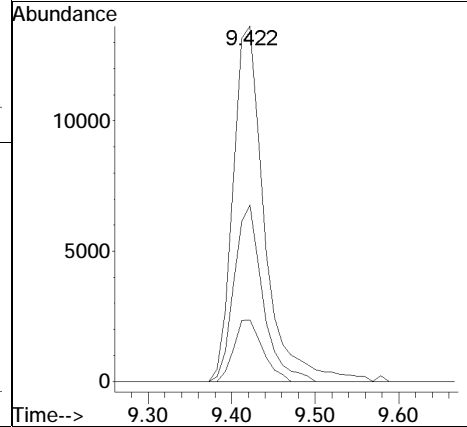
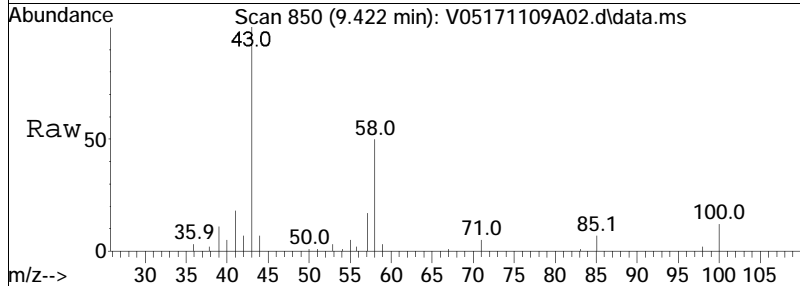
Tgt Ion	Resp	Lower	Upper
107	100		
109	93.4	75.5	113.3

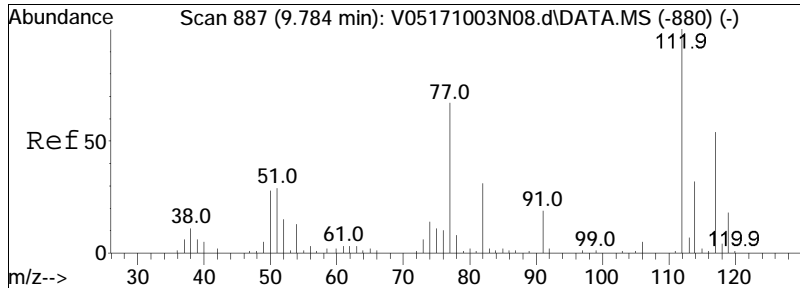




#72
 2-Hexanone
 Concen: 9.61 ug/L
 RT: 9.422 min Scan# 850
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

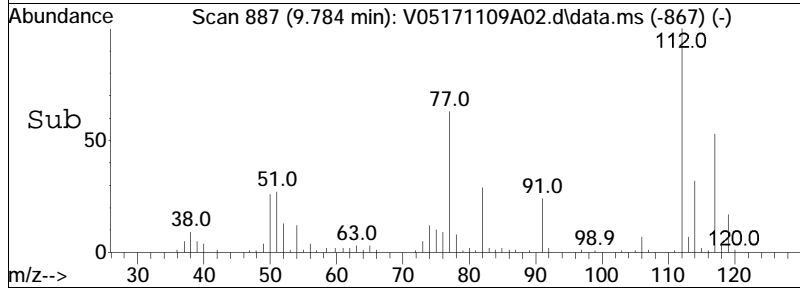
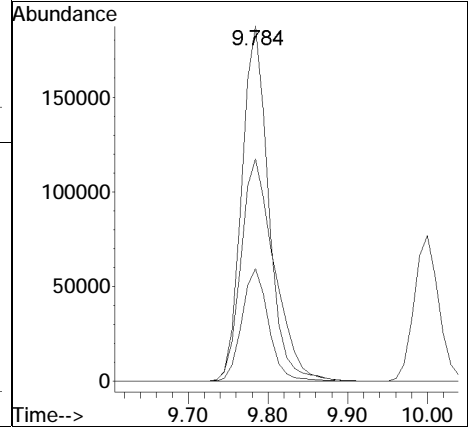
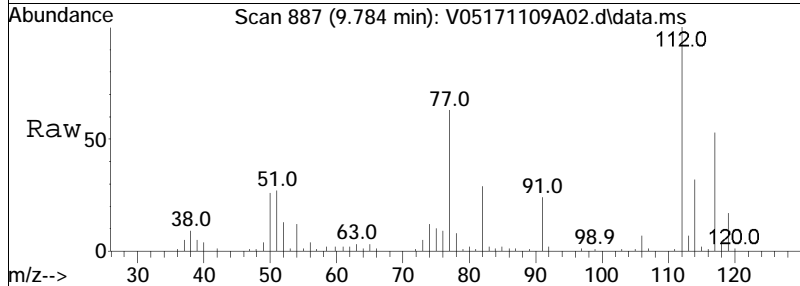
Tgt Ion	Resp	Lower	Upper
43	35748		
58	45.2	32.8	49.2
57	15.8	11.8	17.8

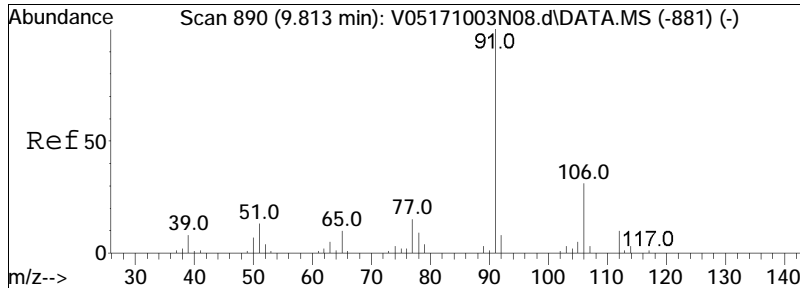




#73
 Chlorobenzene
 Concen: 10.24 ug/L
 RT: 9.784 min Scan# 887
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

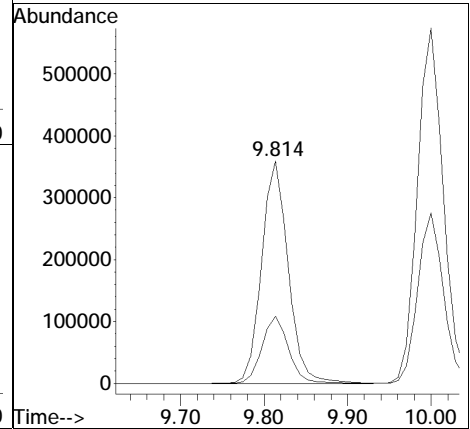
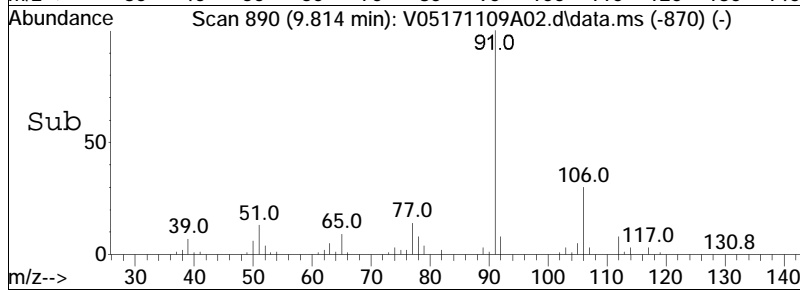
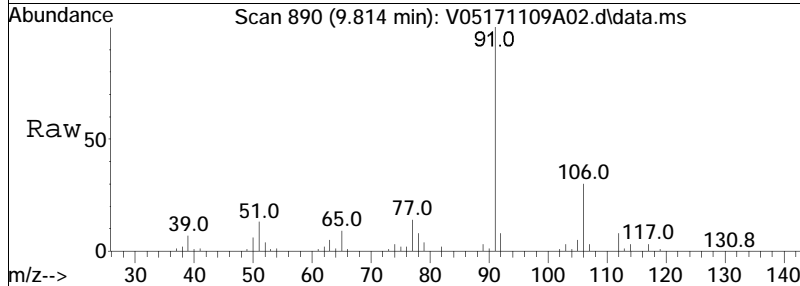
Tgt Ion	Resp	Lower	Upper
112	438548		
77	78.4	67.0	100.4
114	31.8	25.6	38.4

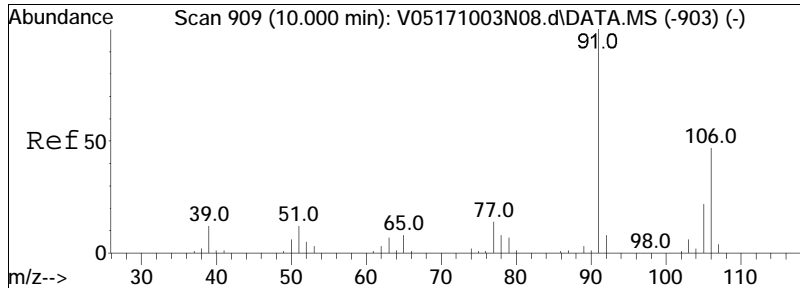




#74
 Ethylbenzene
 Concen: 11.11 ug/L
 RT: 9.814 min Scan# 890
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

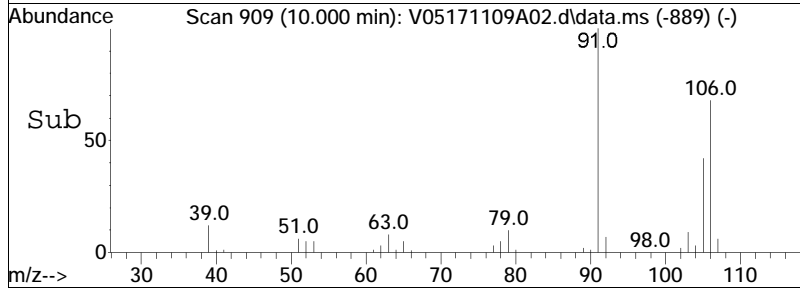
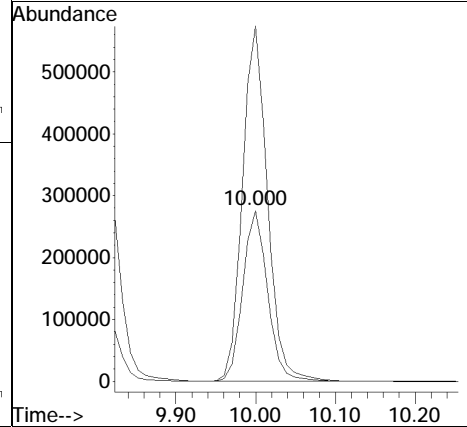
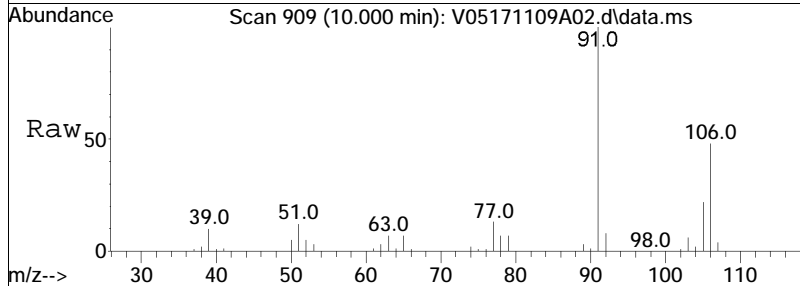
Tgt Ion: 91 Resp: 796390
 Ion Ratio Lower Upper
 91 100
 106 30.0 23.8 35.8

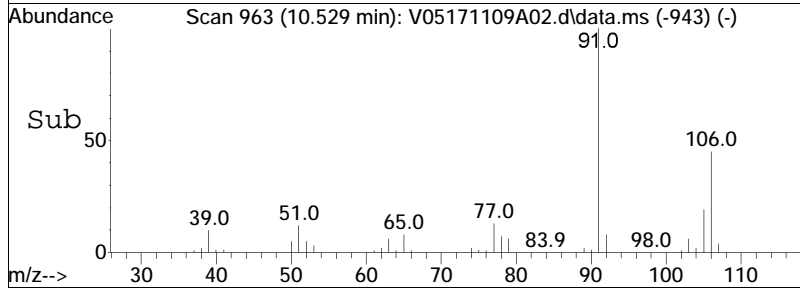
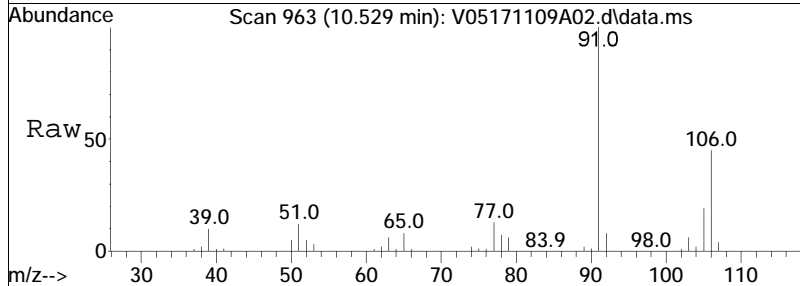
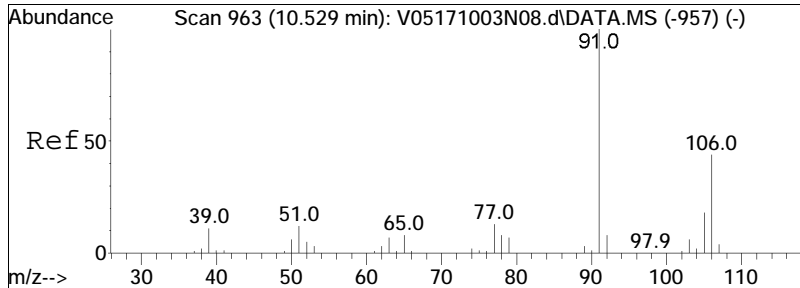




#76
 p/m Xylene
 Concen: 22.01 ug/L
 RT: 10.000 min Scan# 909
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

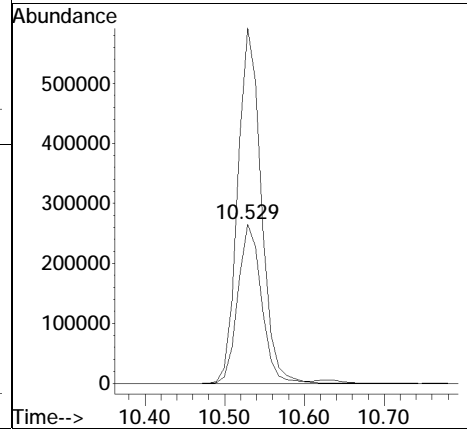
Tgt Ion	Resp	Lower	Upper
106	100		
91	209.1	169.0	253.4

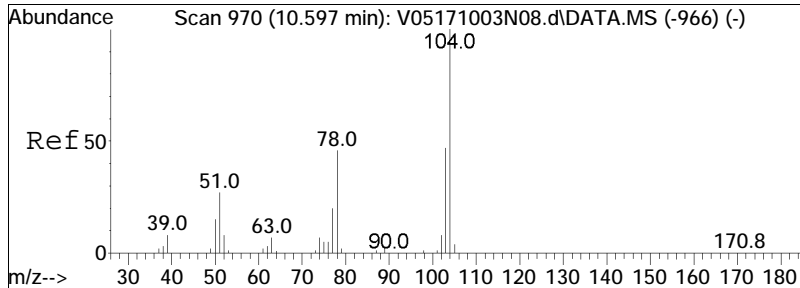




#77
 o Xylene
 Concen: 20.92 ug/L
 RT: 10.529 min Scan# 963
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

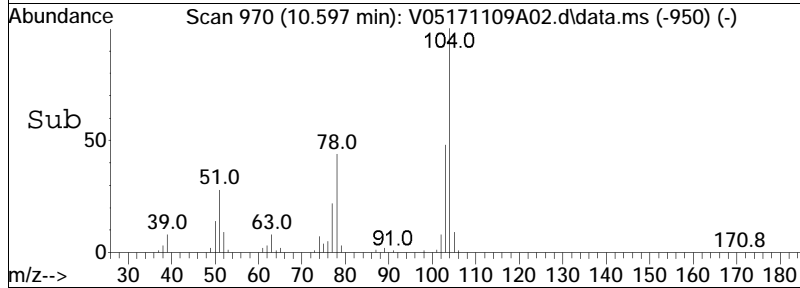
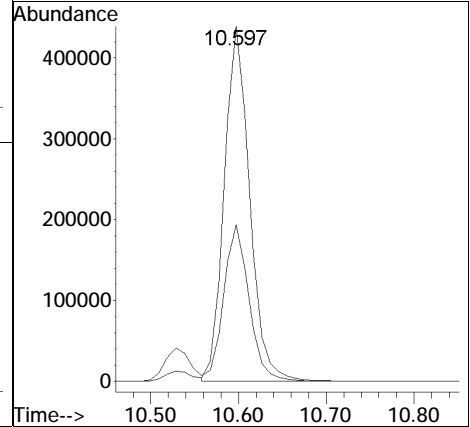
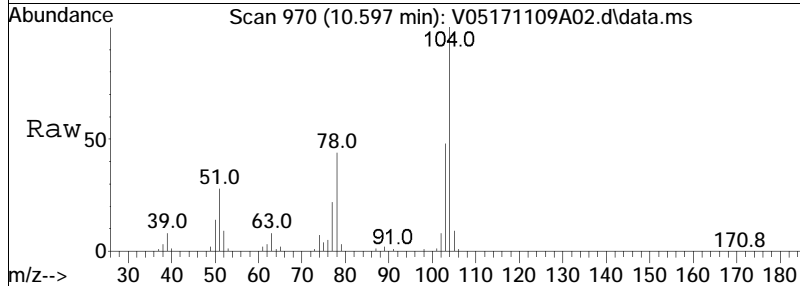
Tgt Ion	106	91	Resp	547236
Ion Ratio	100	220.8	Lower	Upper
			178.9	268.3

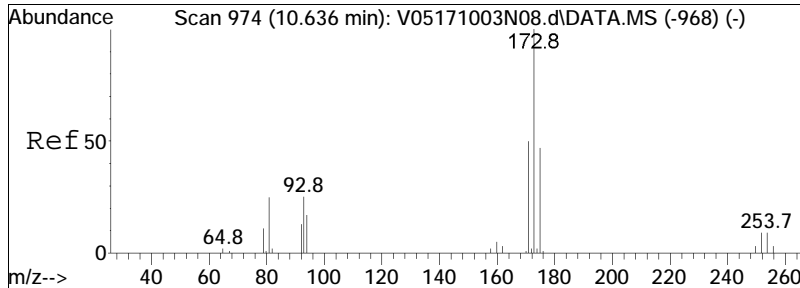




#78
 Styrene
 Concen: 20.95 ug/L
 RT: 10.597 min Scan# 970
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

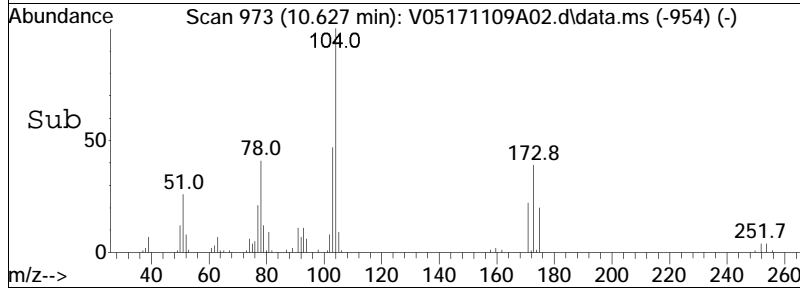
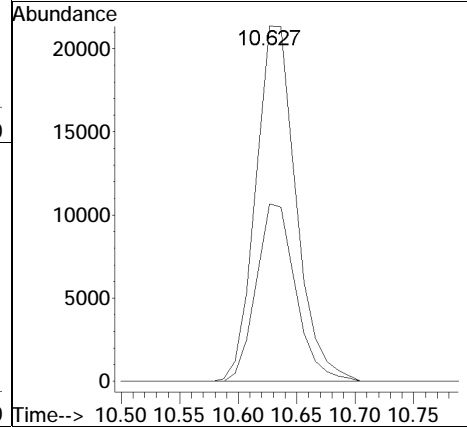
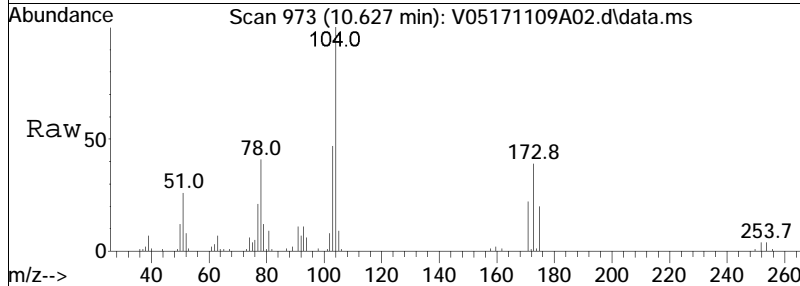
Tgt Ion:	104	Resp:	883432
Ion Ratio	Lower	Upper	
104	100		
78	44.0	37.9	56.9

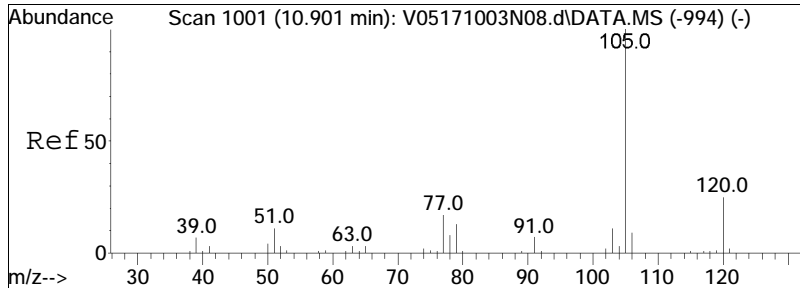




#80
 Bromoform
 Concen: 8.81 ug/L
 RT: 10.627 min Scan# 973
 Delta R.T. -0.010 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

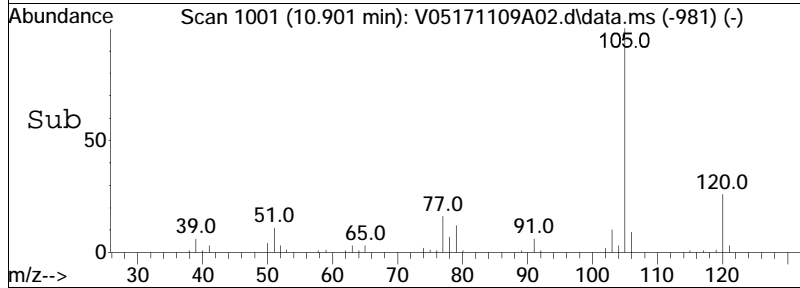
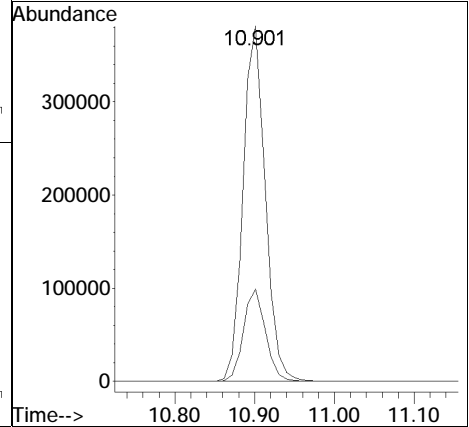
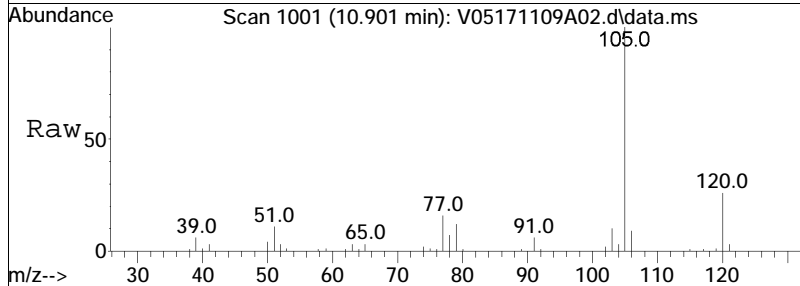
Tgt Ion	Resp	Lower	Upper
173	51192		
173	100		
175	48.9	27.7	67.7

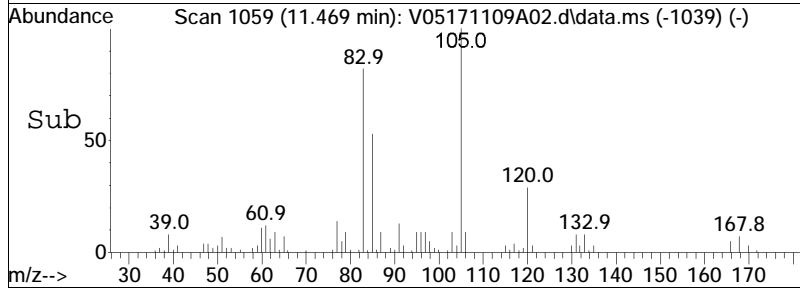
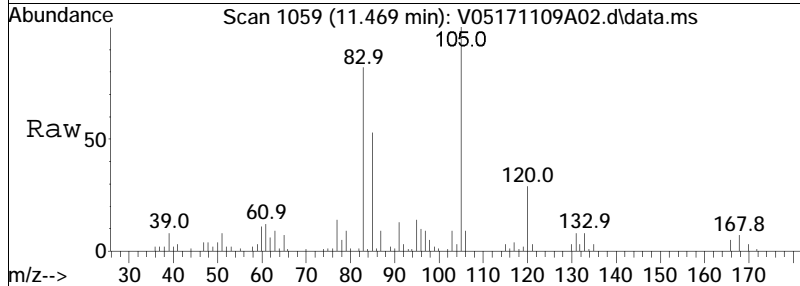
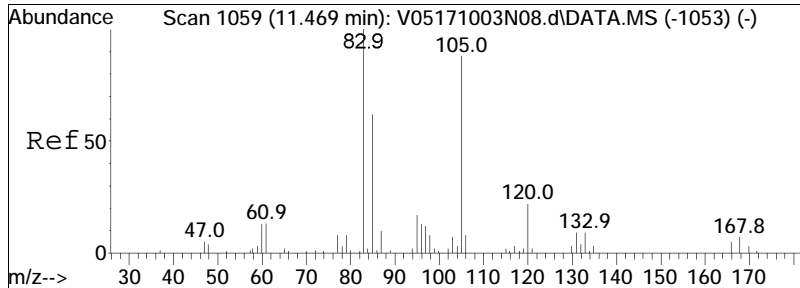




#82
 Isopropylbenzene
 Concen: 11.20 ug/L
 RT: 10.901 min Scan# 1001
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

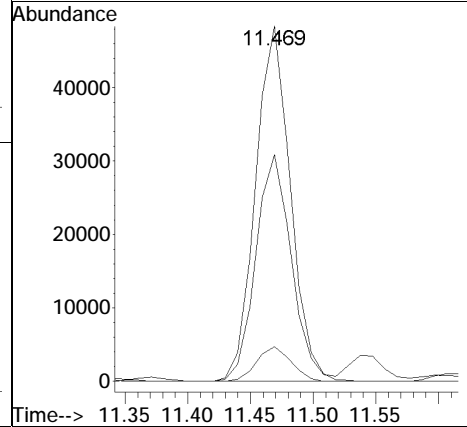
Tgt Ion	Resp	Lower	Upper
105	100		
120	25.8	5.8	45.8

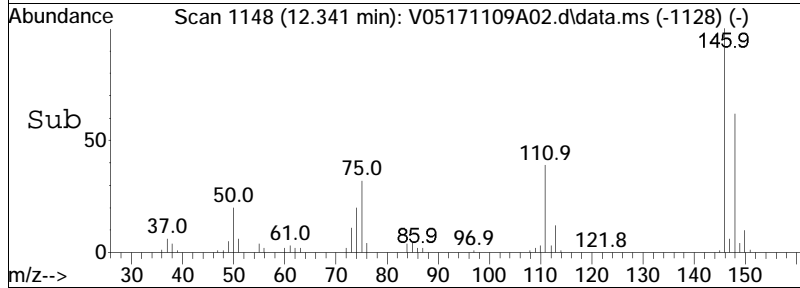
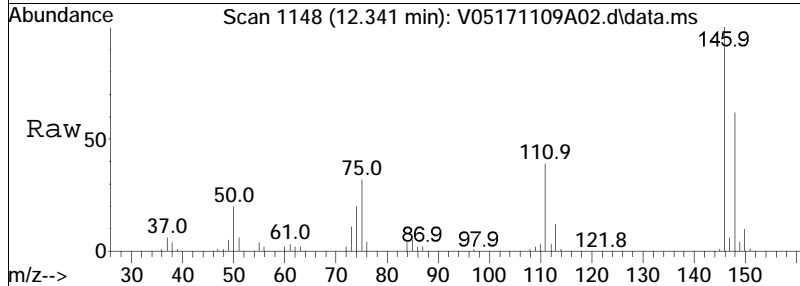
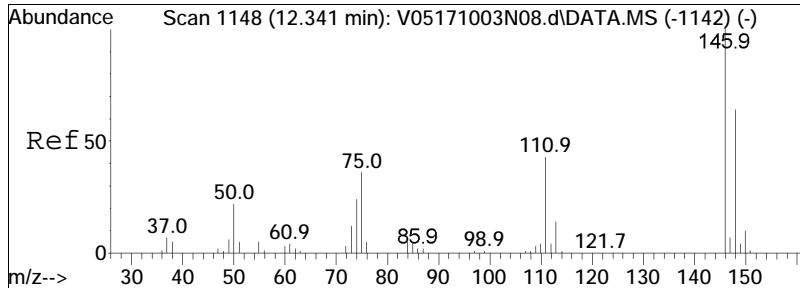




#87
 1,1,2,2-Tetrachloroethane
 Concen: 12.87 ug/L
 RT: 11.469 min Scan# 1059
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

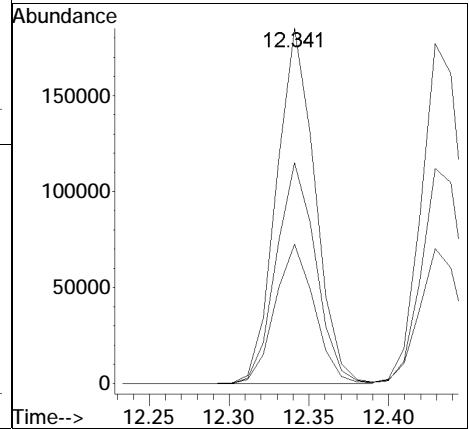
Tgt Ion:	83	Resp:	93607
Ion Ratio	Lower	Upper	
83	100		
131	9.7	0.0	29.3
85	65.3	44.5	84.5

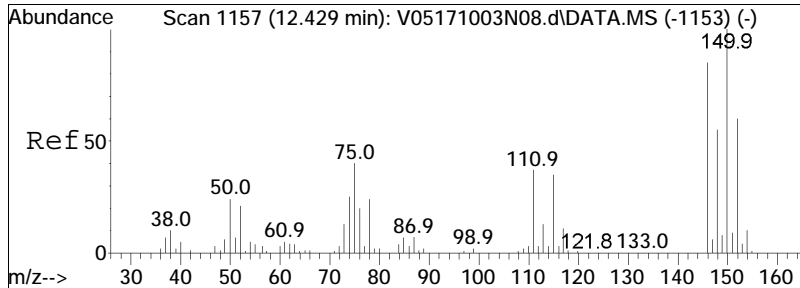




#100
 1,3-Dichlorobenzene
 Concen: 10.67 ug/L
 RT: 12.341 min Scan# 1148
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

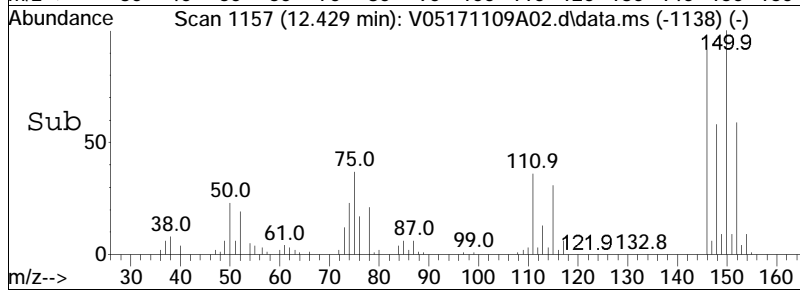
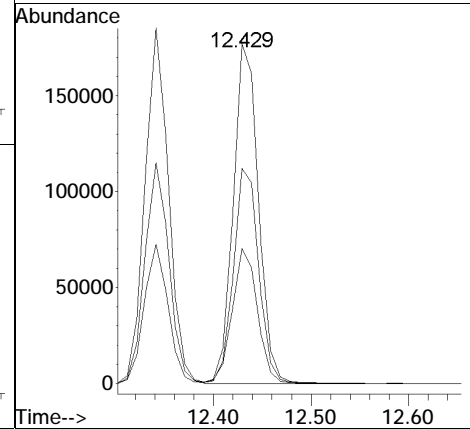
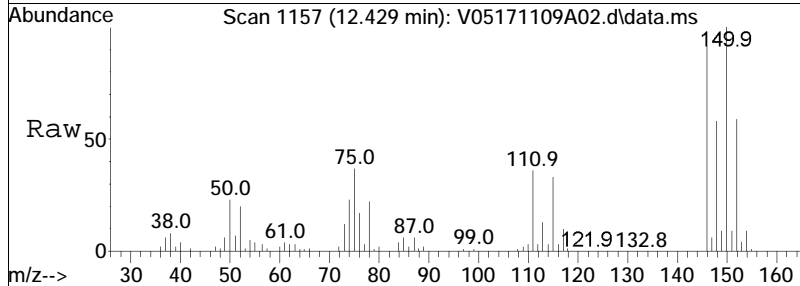
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.8	27.6	57.4
148	63.4	41.3	85.9

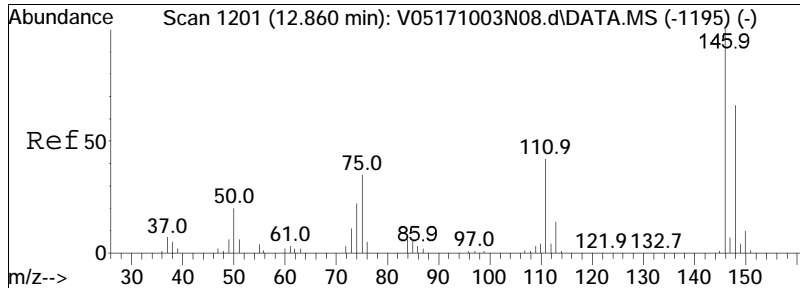




#101
 1,4-Dichlorobenzene
 Concen: 10.37 ug/L
 RT: 12.429 min Scan# 1157
 Delta R.T. -0.010 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

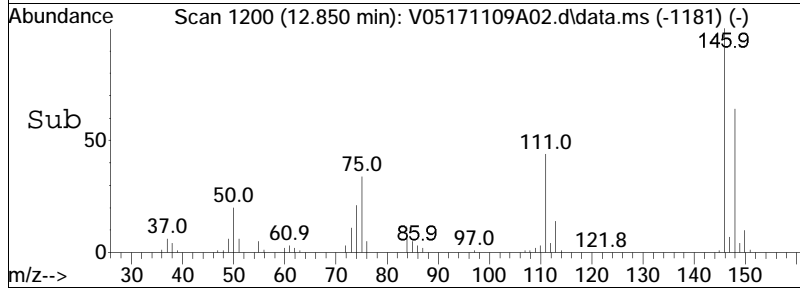
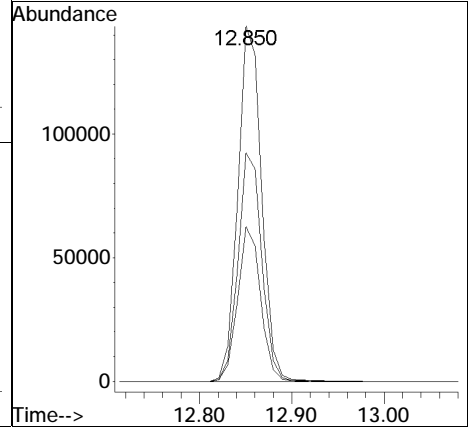
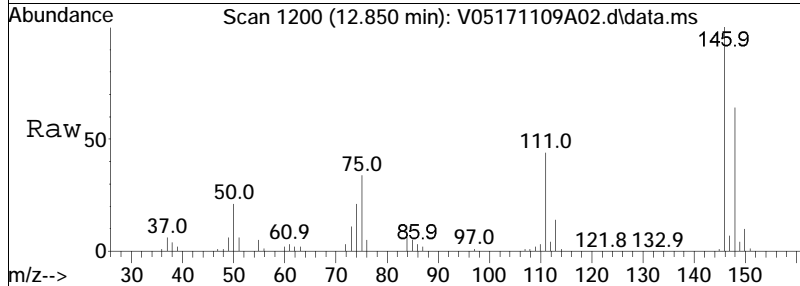
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	33.6	50.4
148	63.4	51.3	76.9

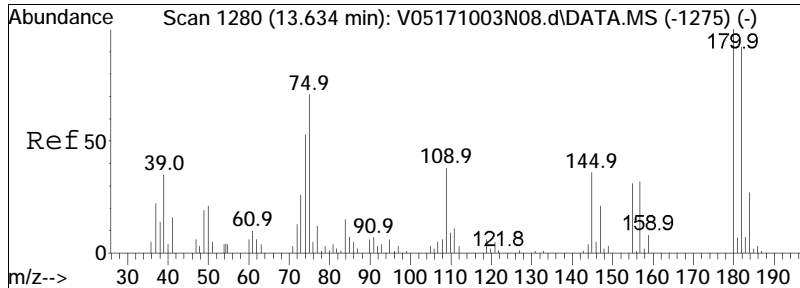




#104
 1,2-Dichlorobenzene
 Concen: 10.67 ug/L
 RT: 12.850 min Scan# 1200
 Delta R.T. -0.010 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

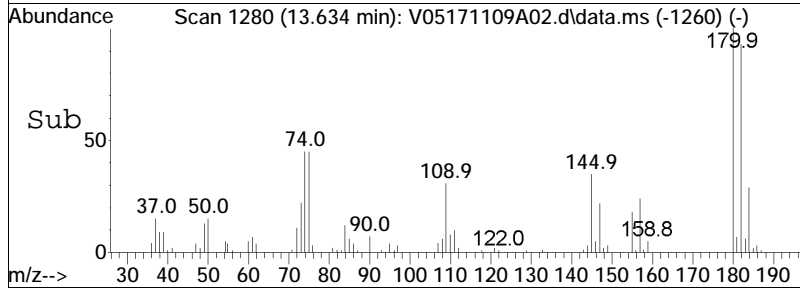
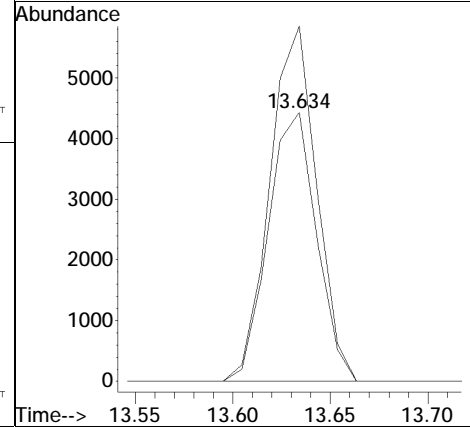
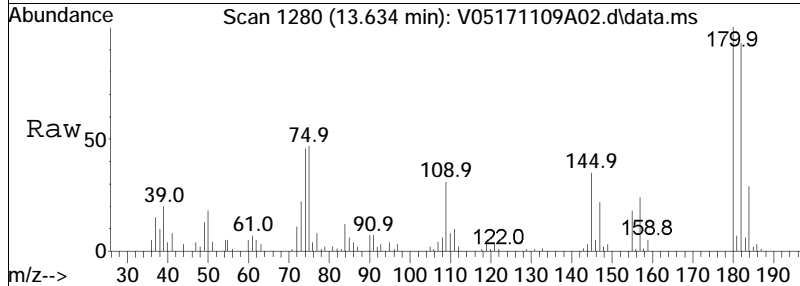
Tgt Ion	Resp	Lower	Upper
146	100		
111	42.1	28.3	58.9
148	64.1	41.9	87.1

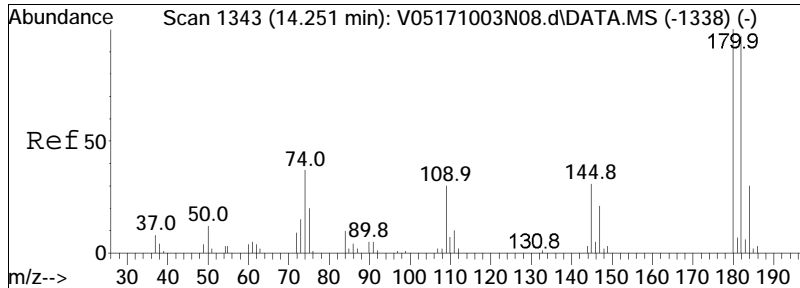




#106
 1,2-Dibromo-3-chloropropane
 Concen: 8.17 ug/L
 RT: 13.634 min Scan# 1280
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

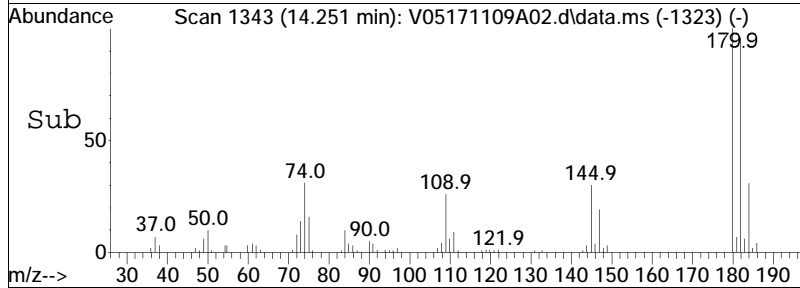
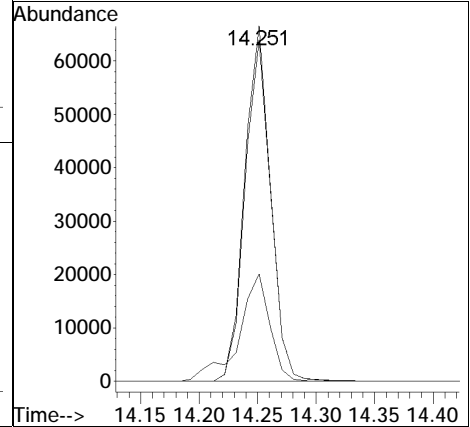
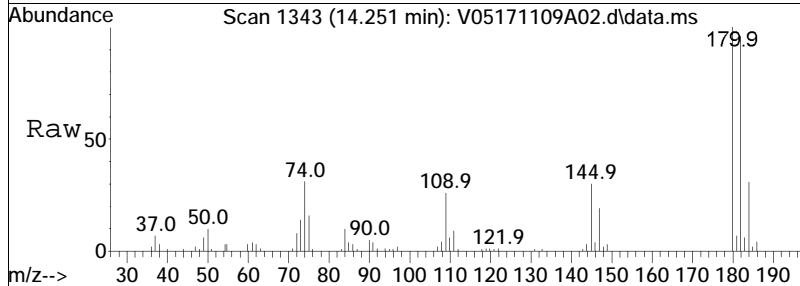
Tgt Ion	Resp	Lower	Upper
155	100		
157	127.5	96.6	145.0

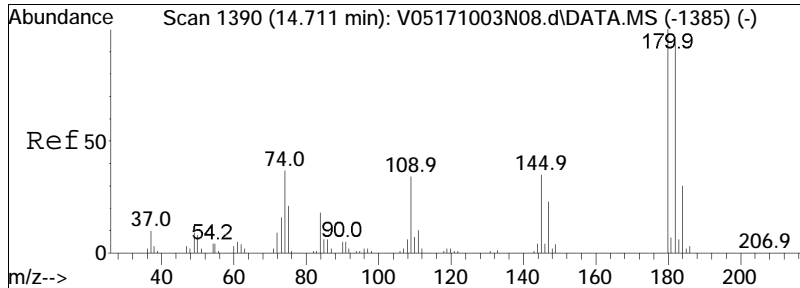




#109
 1,2,4-Trichlorobenzene
 Concen: 10.05 ug/L
 RT: 14.251 min Scan# 1343
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

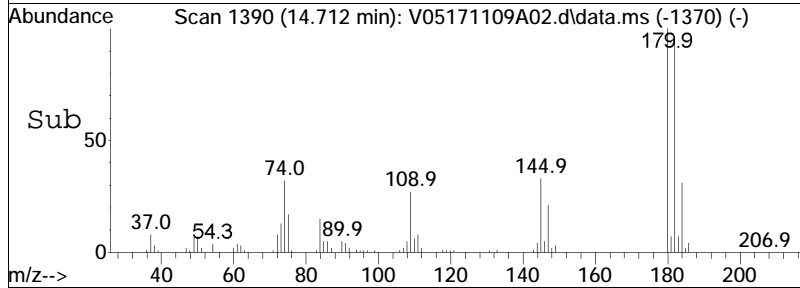
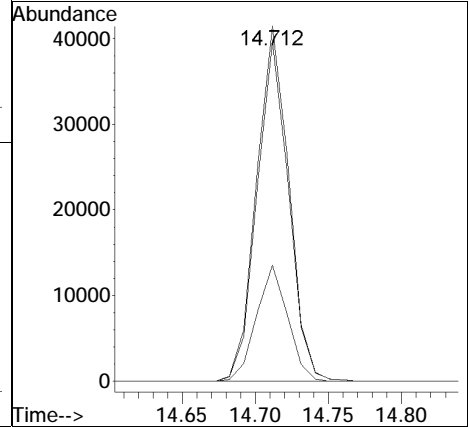
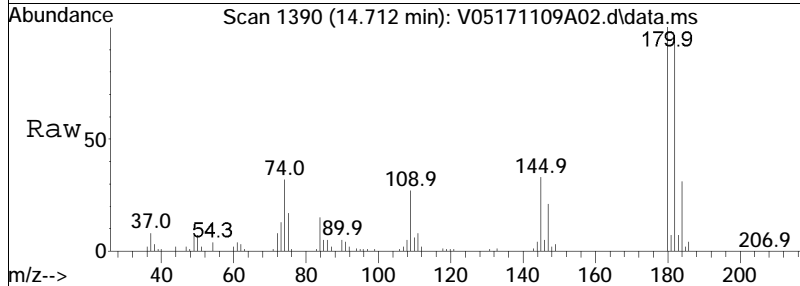
Tgt Ion	Resp	Lower	Upper
180	102651		
180	100		
182	95.6	76.3	114.5
145	36.1	31.0	46.4





#111
 1,2,3-Trichlorobenzene
 Concen: 10.81 ug/L
 RT: 14.712 min Scan# 1390
 Delta R.T. -0.000 min
 Lab File: V05171109A02.d
 Acq: 9 Nov 2017 8:09

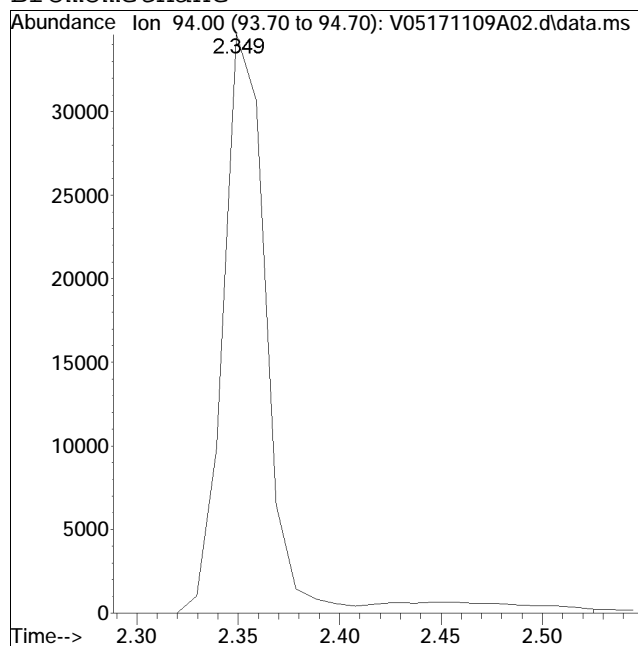
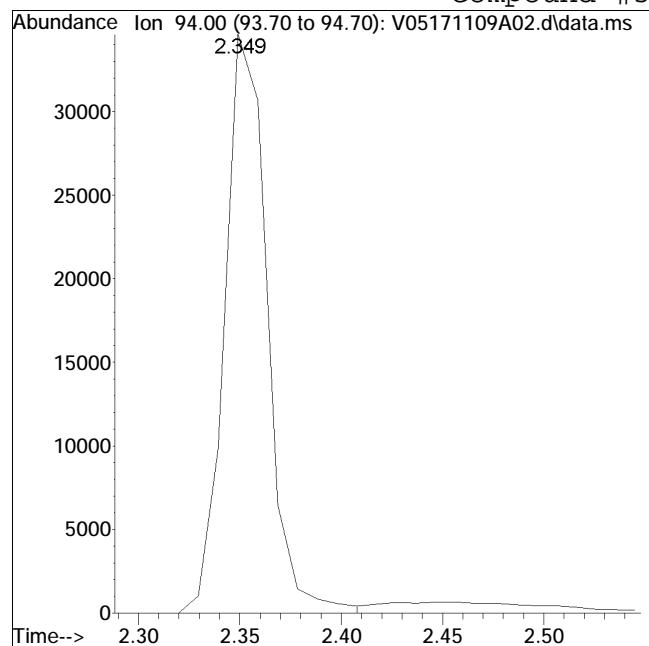
Tgt Ion	Resp	Lower	Upper
180	63900		
180	100		
182	93.6	76.2	114.2
145	31.7	28.2	42.2



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171109A02.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 8:09 Instrument : VOA 105
Sample : WG1061312-10,31,10,10 Quant Date : 11/9/2017 8:33 am

Compound #5: Bromomethane



Original Peak Response = 50469

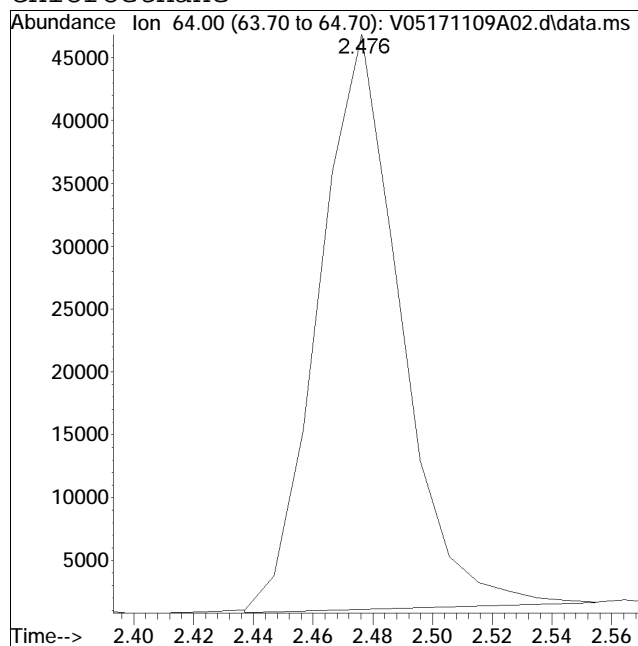
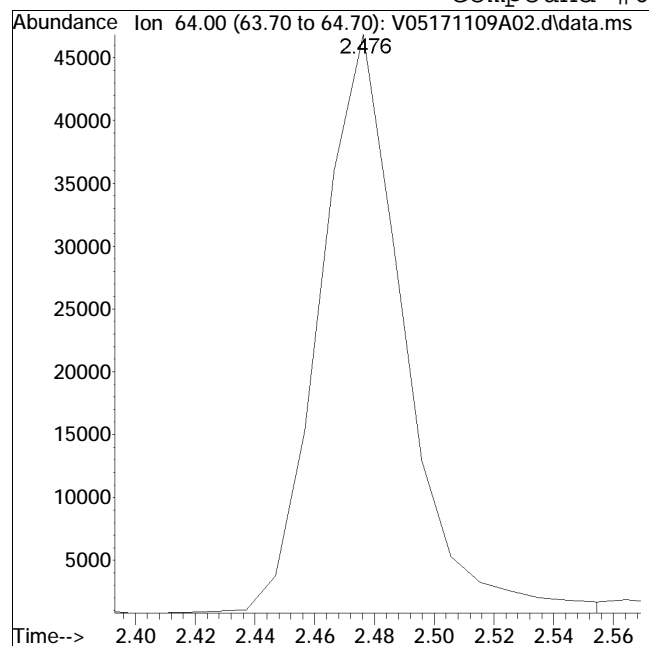
Manual Peak Response = 54126 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171109A02.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 8:09 Instrument : VOA 105
Sample : WG1061312-10,31,10,10 Quant Date : 11/9/2017 8:33 am

Compound #6: Chloroethane



Original Peak Response = 89828

Manual Peak Response = 86548 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P02.d
 Acq On : 8 Nov 2017 9:18 pm
 Operator : VOA105:AD
 Sample : WG1061312-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 09 07:13:43 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.212	96	1074389	10.000	ug/L	0.00	
Standard Area 1 = 1085488			Recovery =	98.98%			
59) Chlorobenzene-d5	9.764	117	759092	10.000	ug/L	0.00	
Standard Area 1 = 758413			Recovery =	100.09%			
79) 1,4-Dichlorobenzene-d4	12.419	152	353888	10.000	ug/L	0.00	
Standard Area 1 = 355962			Recovery =	99.42%			
System Monitoring Compounds							
36) Dibromofluoromethane	5.410	113	253612	8.291	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	82.91%			
43) 1,2-Dichloroethane-d4	5.939	65	291001	8.642	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	86.42%			
60) Toluene-d8	7.904	98	999410	10.270	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.70%			
83) 4-Bromofluorobenzene	11.224	95	360322	12.124	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	121.24%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.743	85	142454	8.426	ug/L		99
3) Chloromethane	1.938	50	182570	12.014	ug/L		98
4) Vinyl chloride	2.026	62	175099	12.434	ug/L		82
5) Bromomethane	2.349	94	51362	6.832	ug/L		99
6) Chloroethane	2.476	64	91758	11.164	ug/L		98
7) Trichlorofluoromethane	2.623	101	233282	7.426	ug/L		98
10) 1,1-Dichloroethene	3.122	96	157520	10.464	ug/L		94
11) Carbon disulfide	3.151	76	437888	11.025	ug/L		99
12) Freon-113	3.151	101	163101	9.661	ug/L		99
15) Methylene chloride	3.689	84	177309	10.311	ug/L		99
17) Acetone	3.738	43	24864	9.349	ug/L	#	89
18) trans-1,2-Dichloroethene	3.845	96	184884	10.376	ug/L		99
19) Methyl acetate	3.855	43	61334	11.355	ug/L		98
20) Methyl tert-butyl ether	3.933	73	305456	10.640	ug/L		94
23) 1,1-Dichloroethane	4.442	63	366621	11.360	ug/L		98
28) cis-1,2-Dichloroethene	4.960	96	201193	10.402	ug/L		97
30) Bromochloromethane	5.156	128	76895	8.737	ug/L		99
31) Cyclohexane	5.146	56	351342	12.511	ug/L		96
32) Chloroform	5.224	83	329436	9.294	ug/L		98
34) Carbon tetrachloride	5.352	117	240885	7.815	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P02.d
 Acq On : 8 Nov 2017 9:18 pm
 Operator : VOA105:AD
 Sample : WG1061312-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 09 07:13:43 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	5.420	97	293726	8.578	ug/L	99
39) 2-Butanone	5.528	43	36067	11.460	ug/L	97
41) Benzene	5.792	78	758370	11.042	ug/L	99
44) 1,2-Dichloroethane	6.007	62	207737	8.881	ug/L	99
47) Methylcyclohexane	6.369	83	274596	11.081	ug/L	98
48) Trichloroethene	6.388	95	200333	9.308	ug/L	98
51) 1,2-Dichloropropane	6.946	63	190474	12.118	ug/L	94
54) Bromodichloromethane	7.014	83	222140	8.919	ug/L	99
57) 1,4-Dioxane	7.230	88	30671	480.473	ug/L	93
58) cis-1,3-Dichloropropene	7.709	75	246442	9.018	ug/L	92
61) Toluene	7.963	92	490745	11.351	ug/L	98
62) 4-Methyl-2-pentanone	8.403	58	25200	11.694	ug/L	92
63) Tetrachloroethene	8.413	166	204952	8.577	ug/L	92
65) trans-1,3-Dichloropropene	8.462	75	189361	9.205	ug/L	93
68) 1,1,2-Trichloroethane	8.648	83	107244	11.262	ug/L	100
69) Chlorodibromomethane	8.853	129	119046	8.626	ug/L	98
71) 1,2-Dibromoethane	9.137	107	99179	10.158	ug/L	99
72) 2-Hexanone	9.422	43	41089	9.555	ug/L	91
73) Chlorobenzene	9.784	112	510075	10.298	ug/L	96
74) Ethylbenzene	9.813	91	943567	11.381	ug/L	100
76) p/m Xylene	10.000	106	706182	22.518	ug/L	98
77) o Xylene	10.529	106	645316	21.317	ug/L	98
78) Styrene	10.597	104	1025208	21.014	ug/L	95
80) Bromoform	10.636	173	54954	8.590	ug/L	100
82) Isopropylbenzene	10.901	105	871911	12.004	ug/L	100
87) 1,1,2,2-Tetrachloroethane	11.469	83	103545	12.926	ug/L	99
100) 1,3-Dichlorobenzene	12.341	146	345199	10.740	ug/L	99
101) 1,4-Dichlorobenzene	12.429	146	351363	10.426	ug/L	99
104) 1,2-Dichlorobenzene	12.850	146	284064	10.732	ug/L	98
106) 1,2-Dibromo-3-chloropr...	13.634	155	8112	7.894	ug/L	95
109) 1,2,4-Trichlorobenzene	14.251	180	112525	10.005	ug/L	97
111) 1,2,3-Trichlorobenzene	14.711	180	66577	10.226	ug/L	99

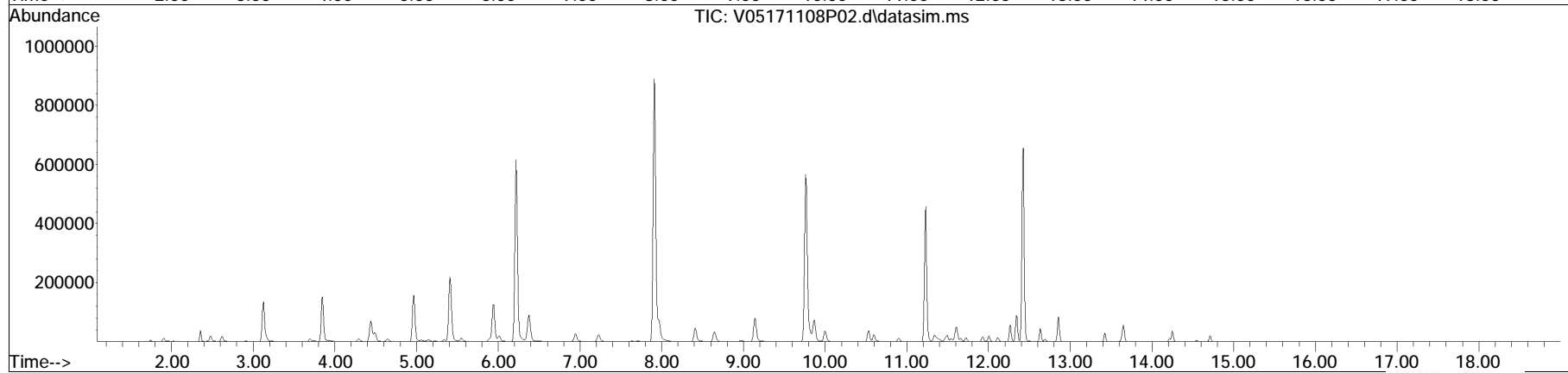
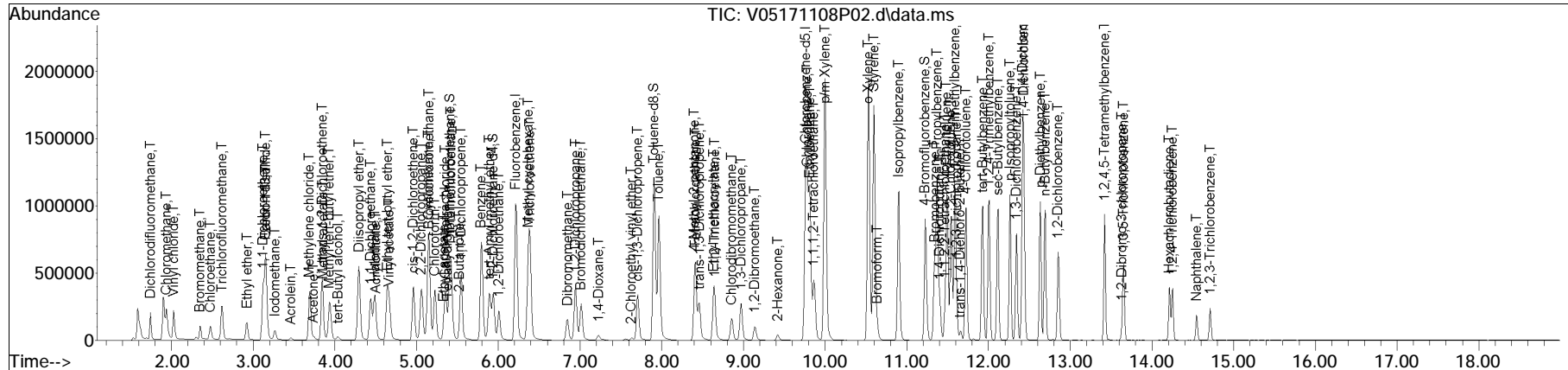
(#) = qualifier out of range (m) = manual integration (+) = signals summed

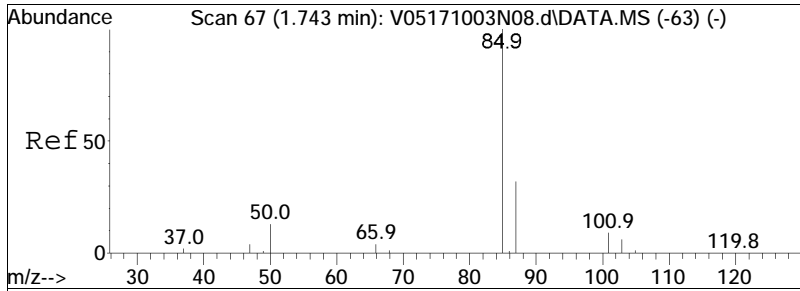
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P02.d
 Acq On : 8 Nov 2017 9:18 pm
 Operator : VOA105:AD
 Sample : WG1061312-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 09 07:13:43 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

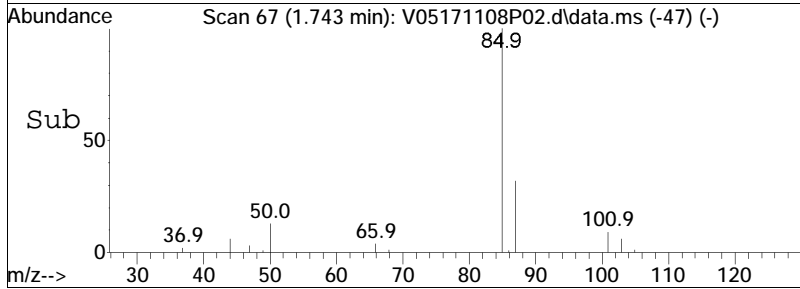
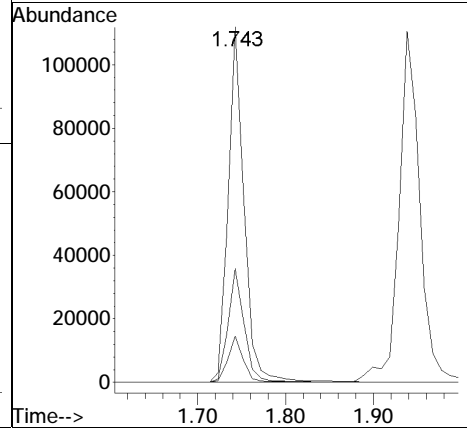
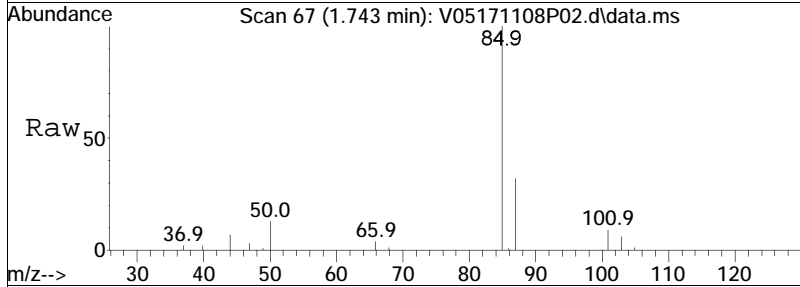
Sub List : 8260-Curve - Megamix plus Diox71108P\V05171108P01.d•

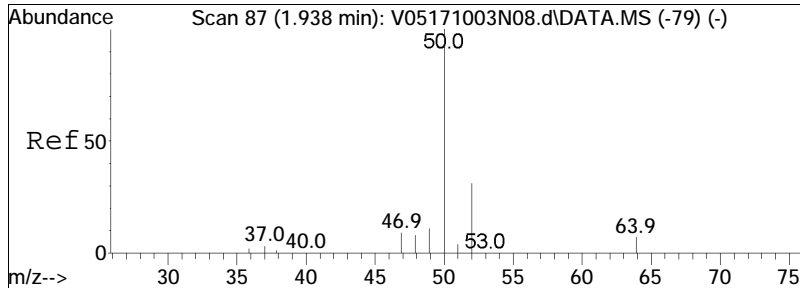




#2
 Dichlorodifluoromethane
 Concen: 8.43 ug/L
 RT: 1.743 min Scan# 67
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

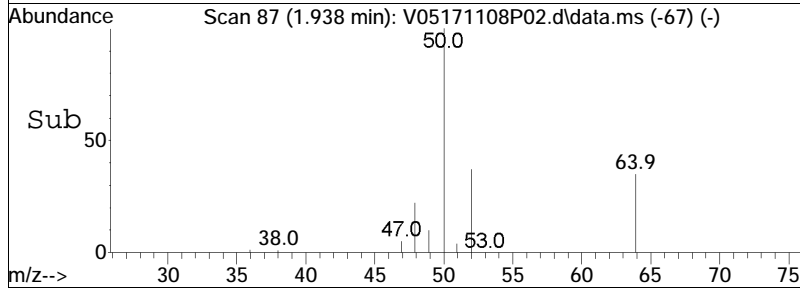
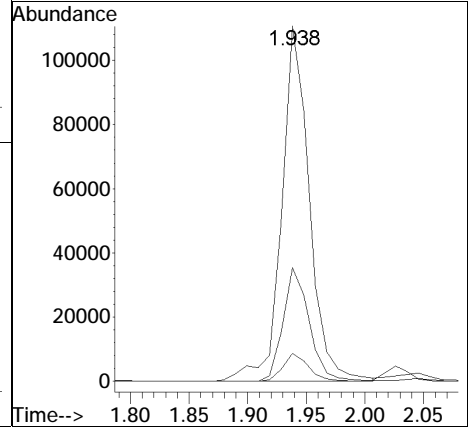
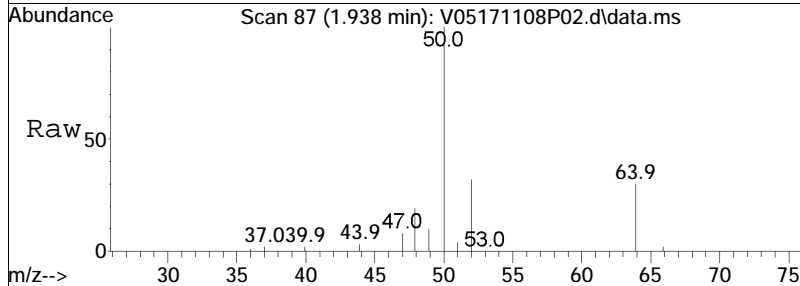
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.2	21.3	44.1
50	12.5	8.7	18.1

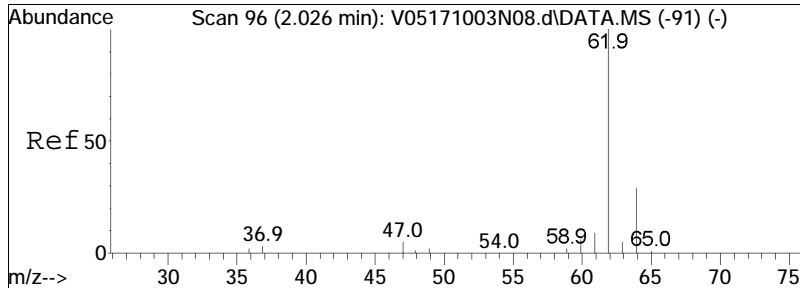




#3
 Chloromethane
 Concen: 12.01 ug/L
 RT: 1.938 min Scan# 87
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

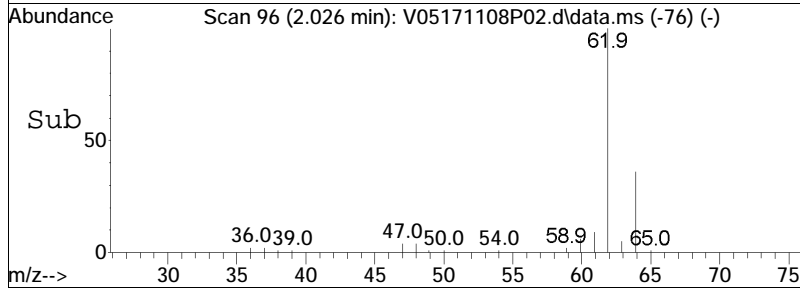
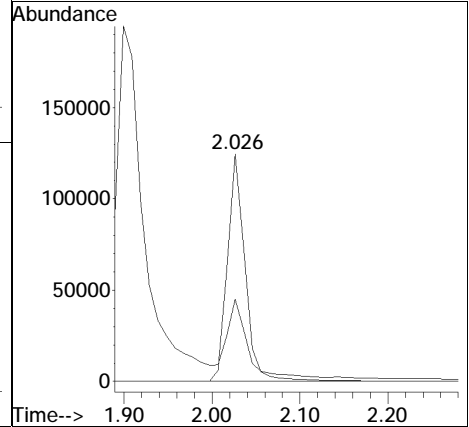
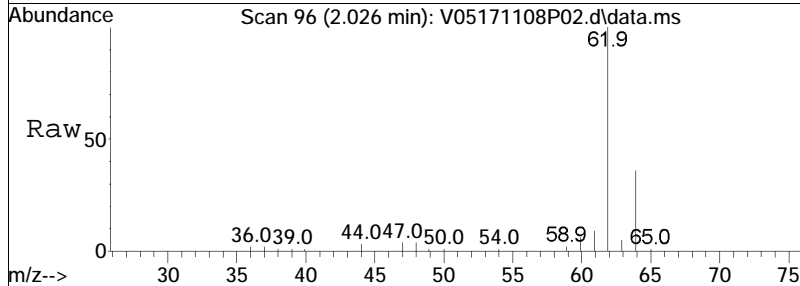
Tgt Ion	Resp	Lower	Upper
50	182570		
52	30.3	11.4	51.4
47	7.4	0.0	28.0

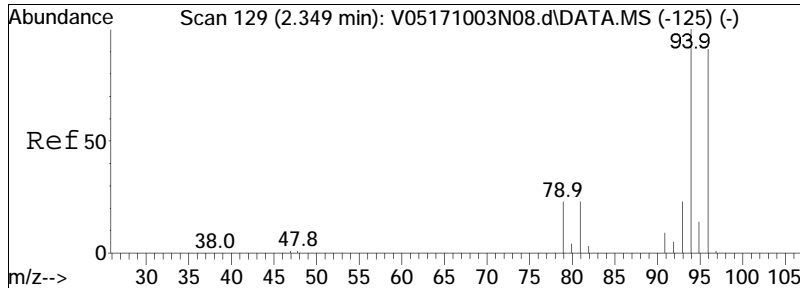




#4
 Vinyl chloride
 Concen: 12.43 ug/L
 RT: 2.026 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

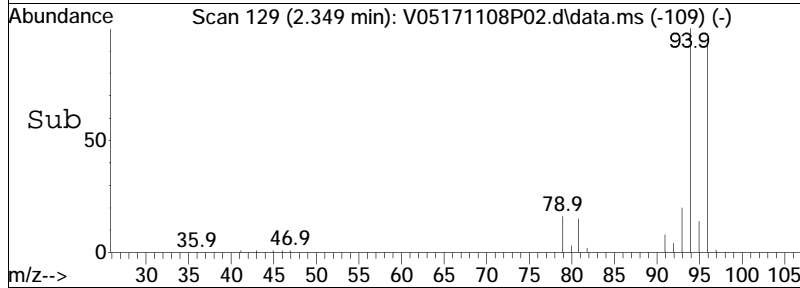
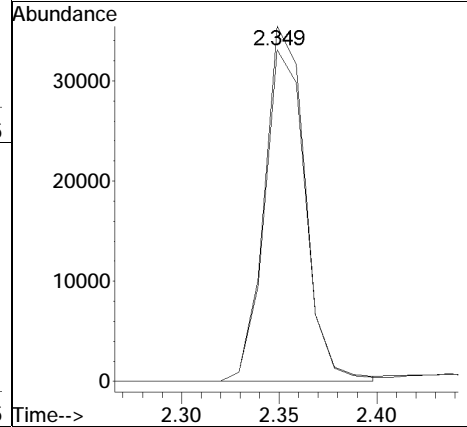
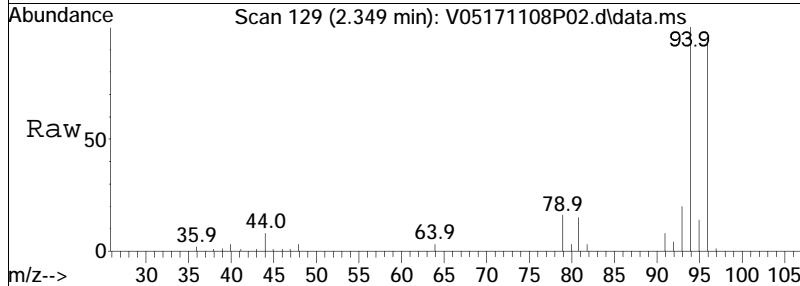
Tgt Ion	Resp	Lower	Upper
62	175099		
62	100		
64	44.2	13.8	53.8

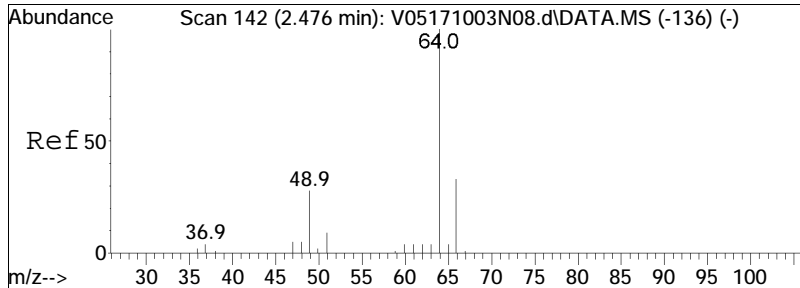




#5
 Bromomethane
 Concen: 6.83 ug/L
 RT: 2.349 min Scan# 129
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

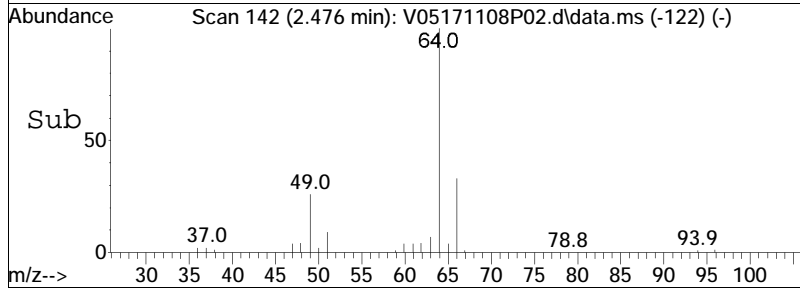
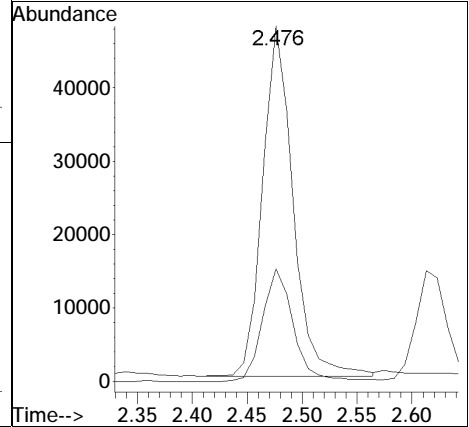
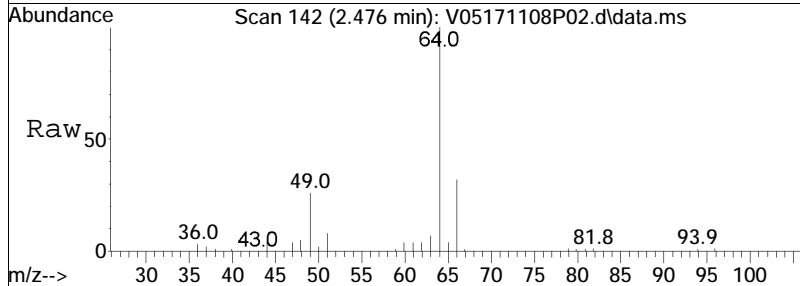
Tgt Ion	Resp	Lower	Upper
94	51362		
96	94.5	73.1	113.1

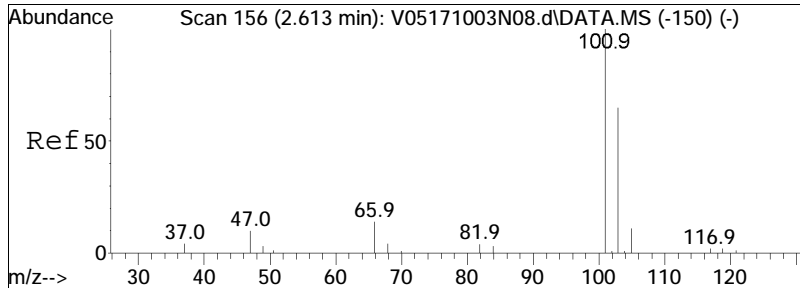




#6
 Chloroethane
 Concen: 11.16 ug/L
 RT: 2.476 min Scan# 142
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

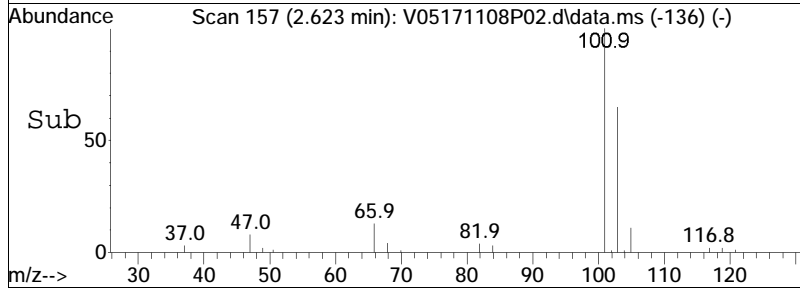
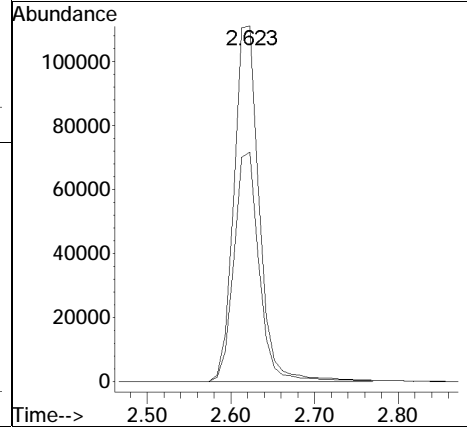
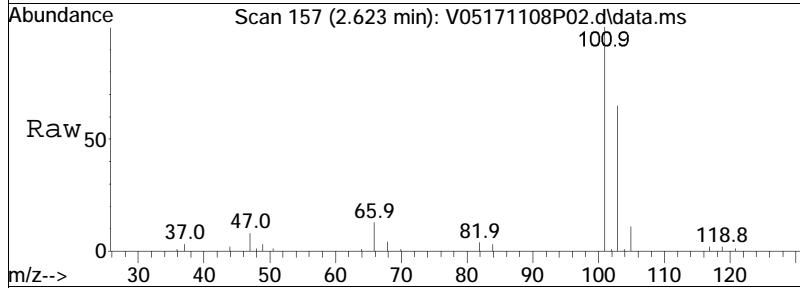
Tgt Ion	Resp	Lower	Upper
64	100		
66	32.7	13.7	53.7

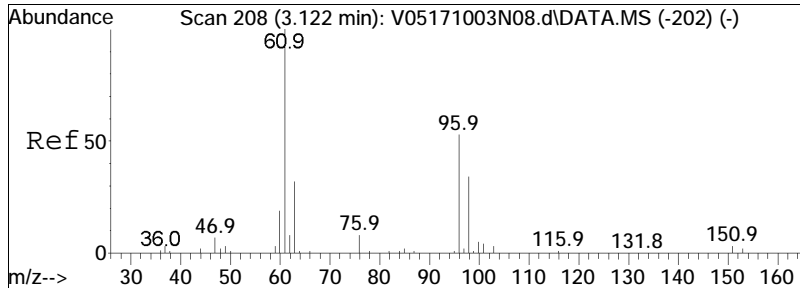




#7
 Trichlorofluoromethane
 Concen: 7.43 ug/L
 RT: 2.623 min Scan# 157
 Delta R.T. 0.010 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

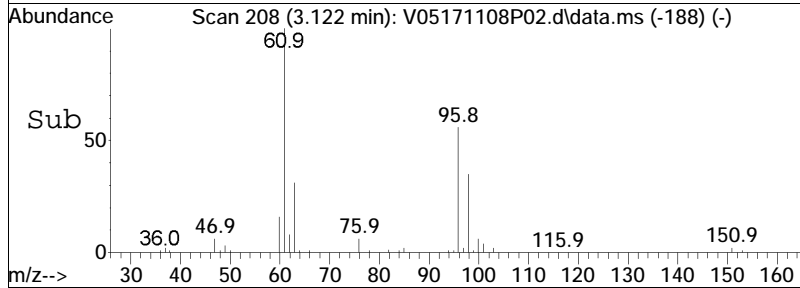
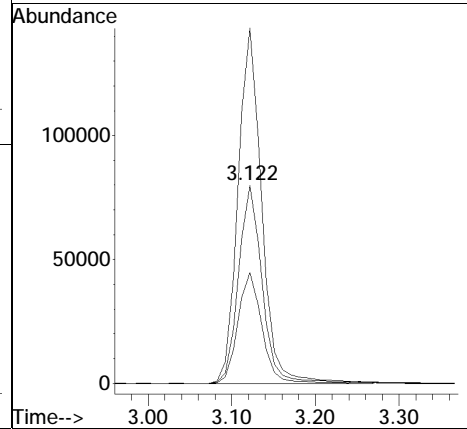
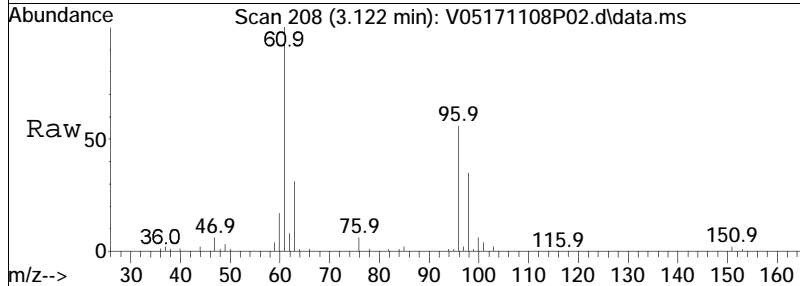
Tgt Ion	Resp	Lower	Upper
101	233282		
101	100		
103	64.4	52.6	79.0

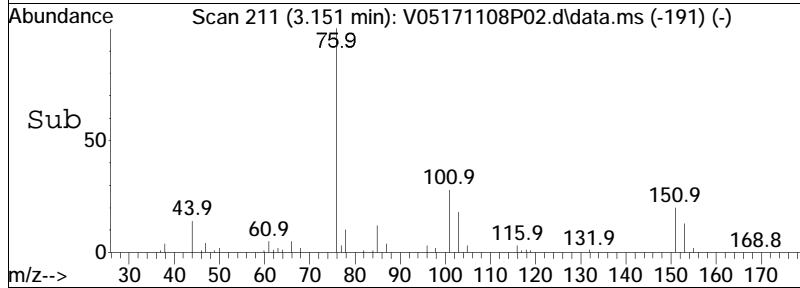
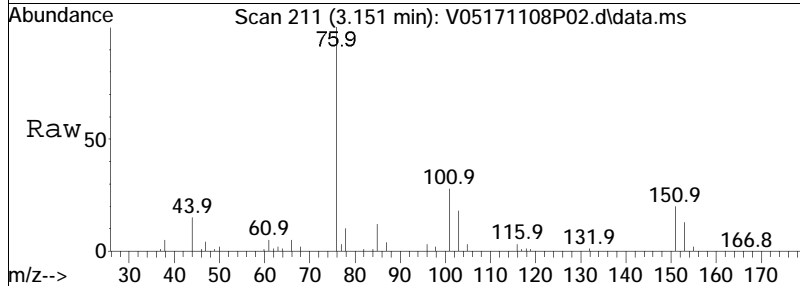
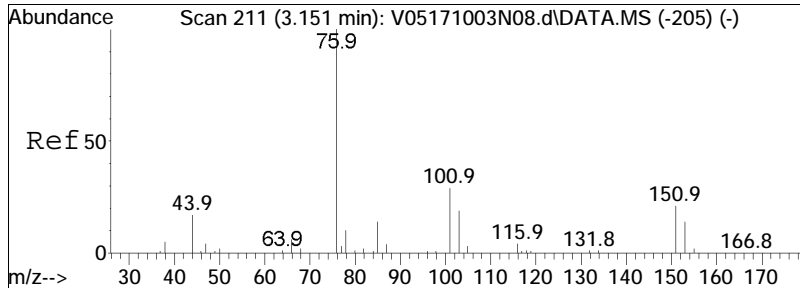




#10
 1,1-Dichloroethene
 Concen: 10.46 ug/L
 RT: 3.122 min Scan# 208
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

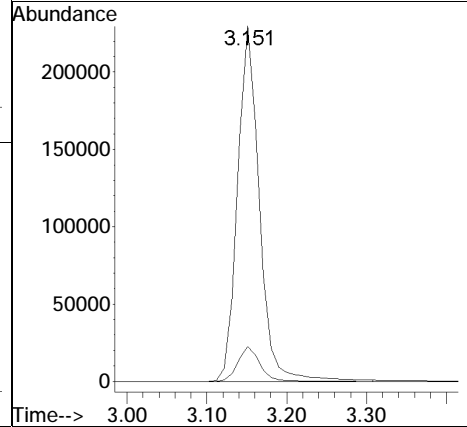
Tgt Ion	Resp	Lower	Upper
96	157520		
96	100		
61	179.4	151.0	226.4
63	56.8	47.7	71.5

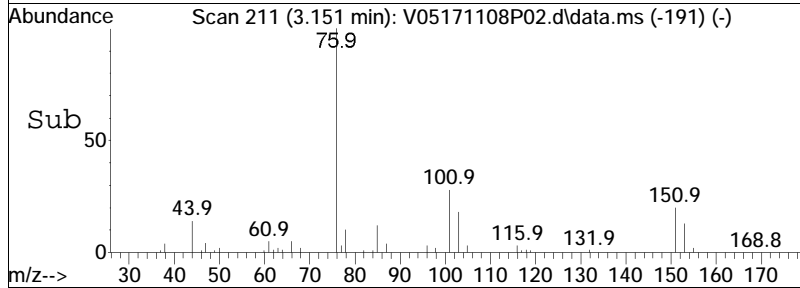
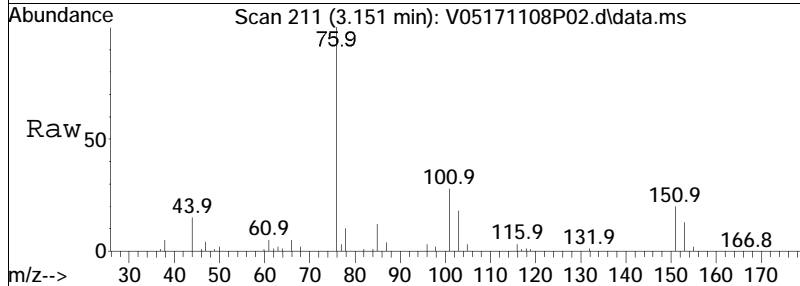
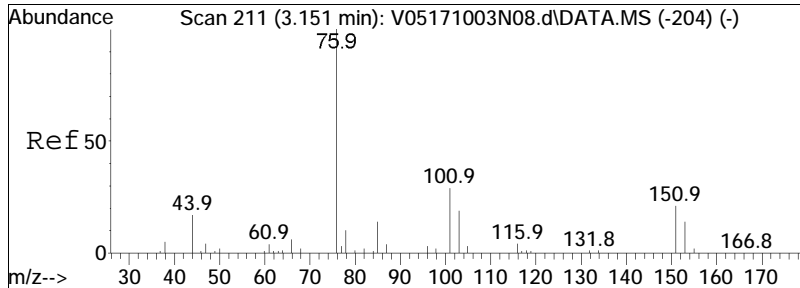




#11
 Carbon disulfide
 Concen: 11.03 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

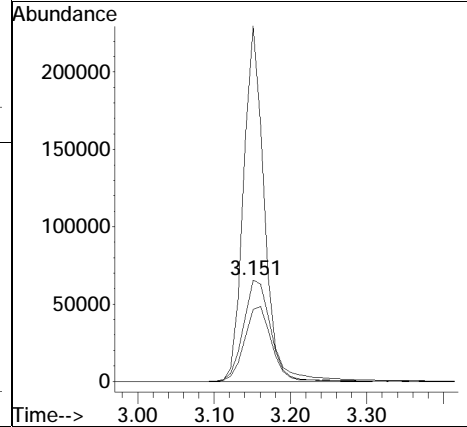
Tgt Ion: 76 Resp: 437888
 Ion Ratio Lower Upper
 76 100
 78 10.0 6.7 13.9

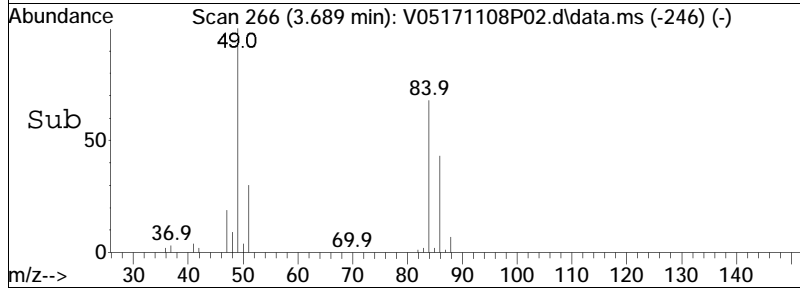
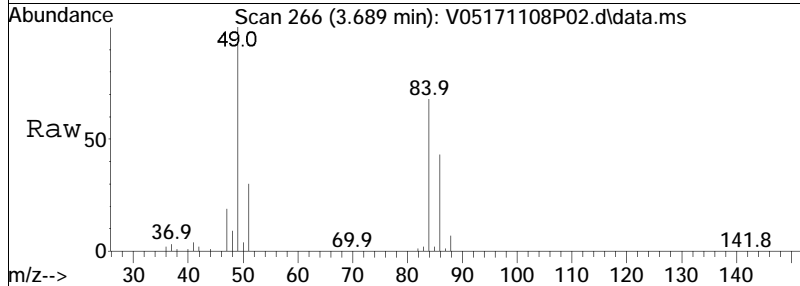
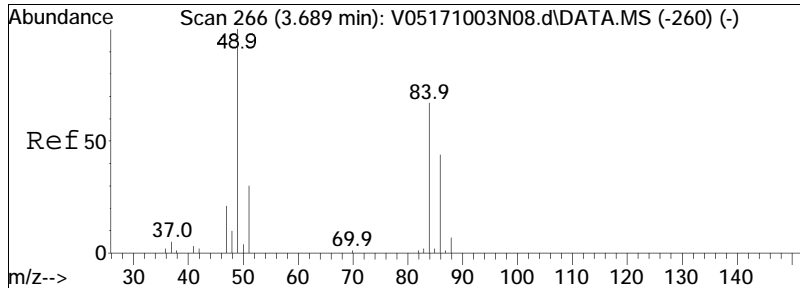




#12
 Freon-113
 Concen: 9.66 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

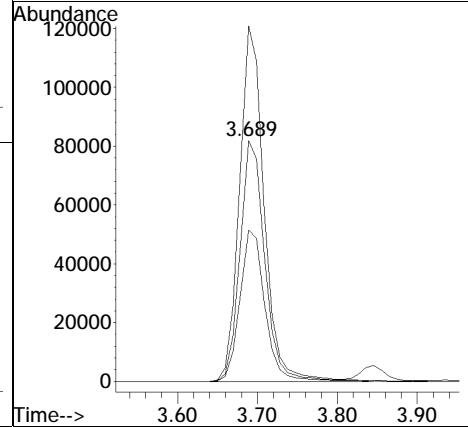
Tgt Ion	101	Resp:	163101
Ion Ratio	Lower	Upper	
101	100		
151	73.8	59.2	88.8
76	268.5	213.0	319.4

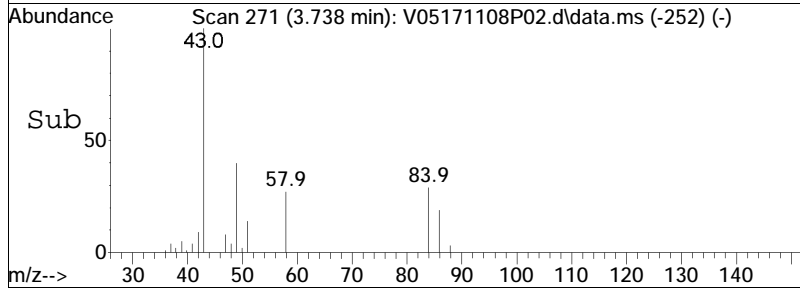
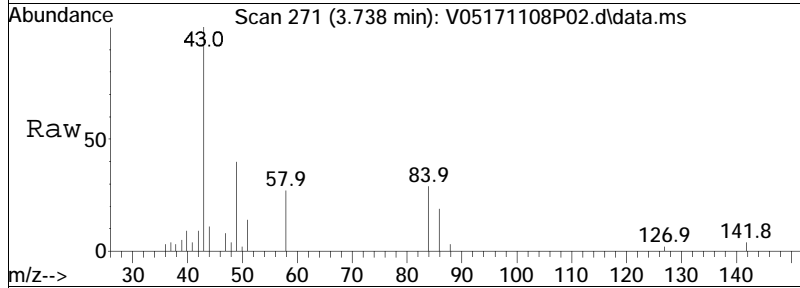
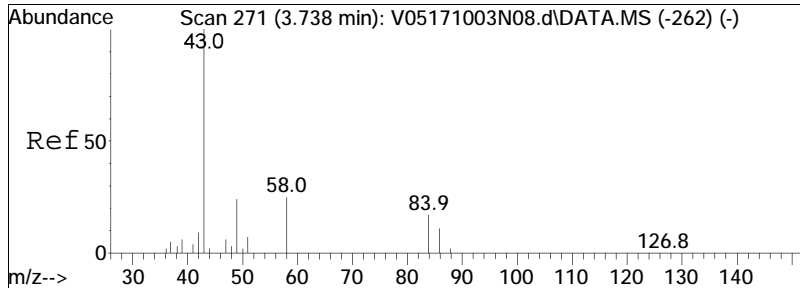




#15
 Methylene chloride
 Concen: 10.31 ug/L
 RT: 3.689 min Scan# 266
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

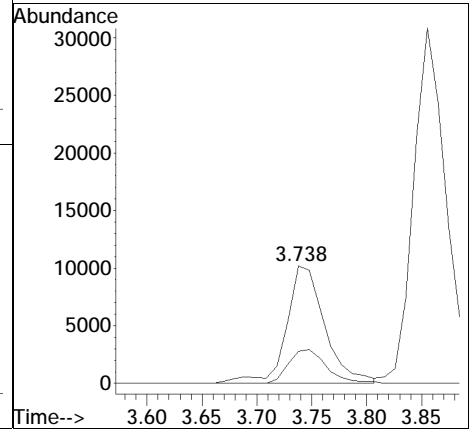
Tgt Ion:	84	Resp:	177309
Ion Ratio	Lower	Upper	
84	100		
86	63.5	41.9	86.9
49	144.8	95.1	197.5

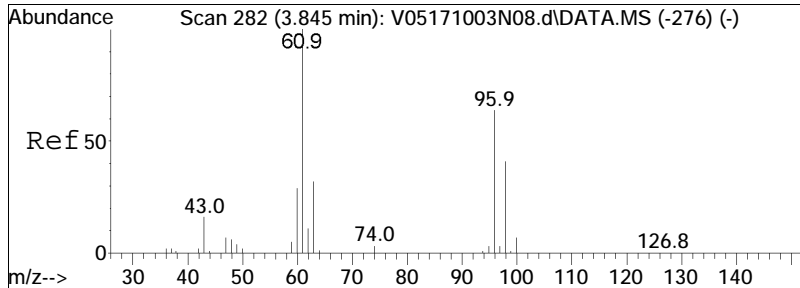




#17
 Acetone
 Concen: 9.35 ug/L
 RT: 3.738 min Scan# 271
 Delta R.T. -0.010 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

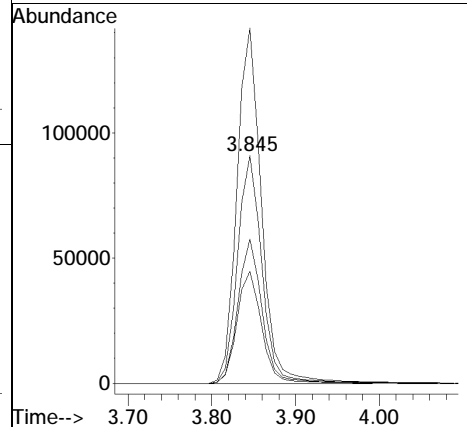
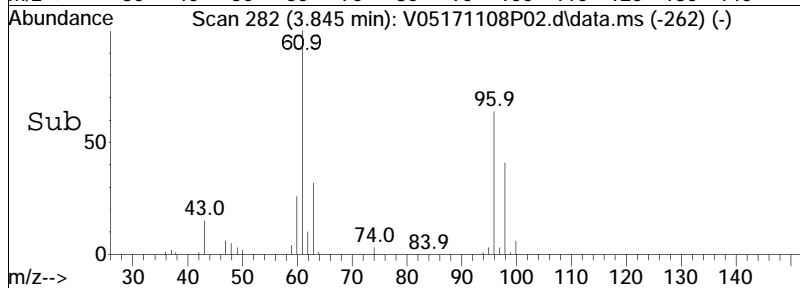
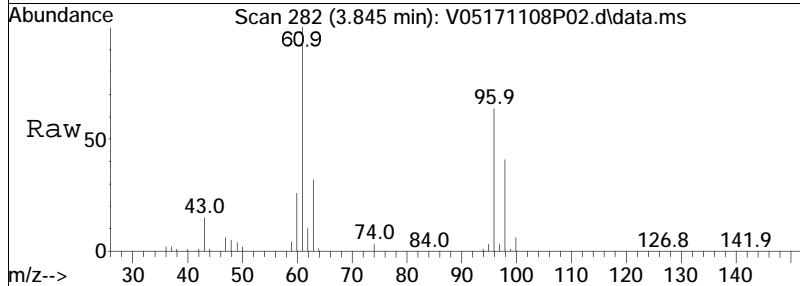
Tgt Ion	Resp	Lower	Upper
43	24864		
58	28.5	18.5	27.7#

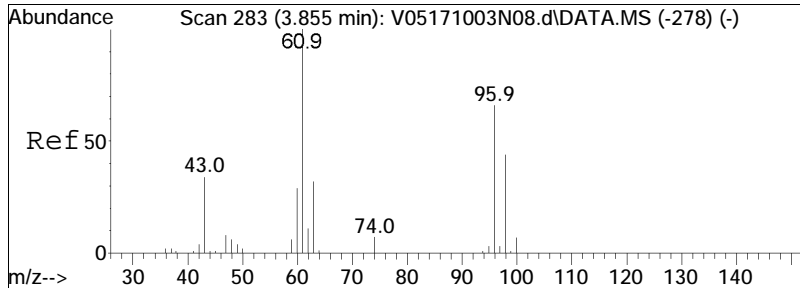




#18
 trans-1,2-Dichloroethene
 Concen: 10.38 ug/L
 RT: 3.845 min Scan# 282
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

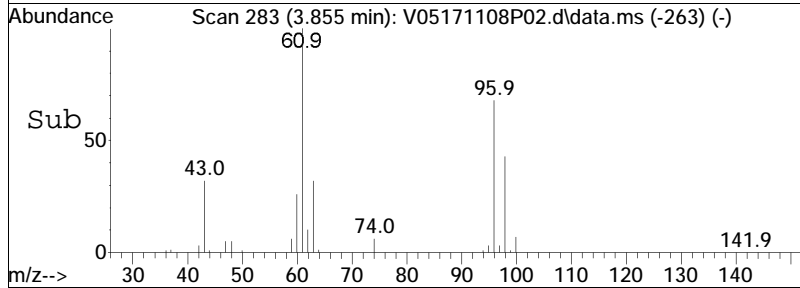
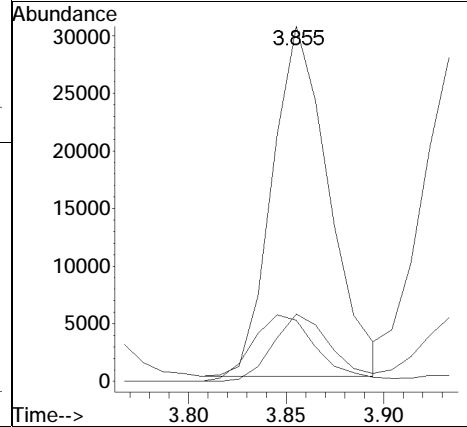
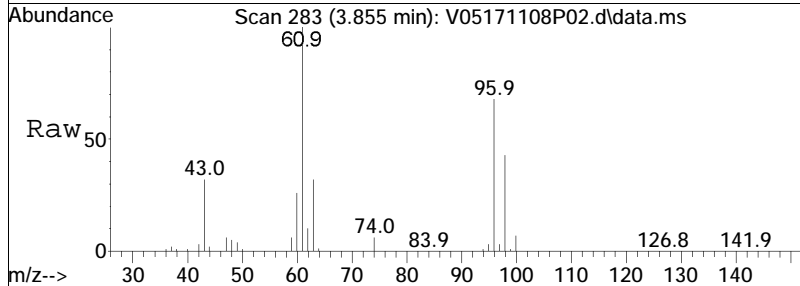
Tgt Ion	Resp	Lower	Upper
96	184884		
61	156.5	102.0	211.8
98	63.0	41.9	87.1
63	50.1	32.6	67.8

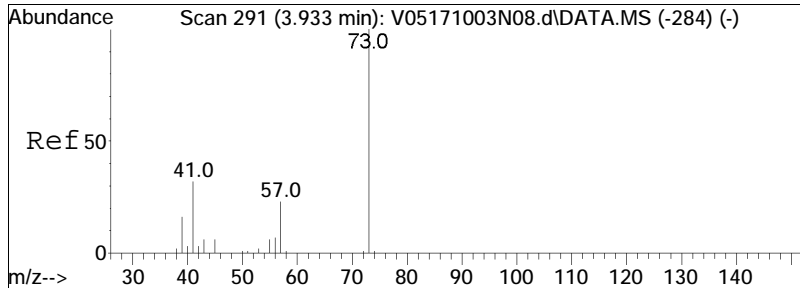




#19
 Methyl acetate
 Concen: 11.35 ug/L
 RT: 3.855 min Scan# 283
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

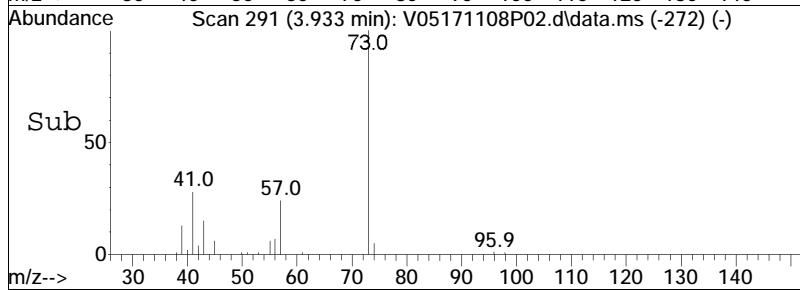
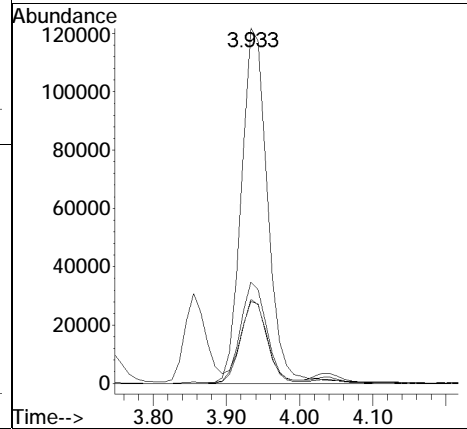
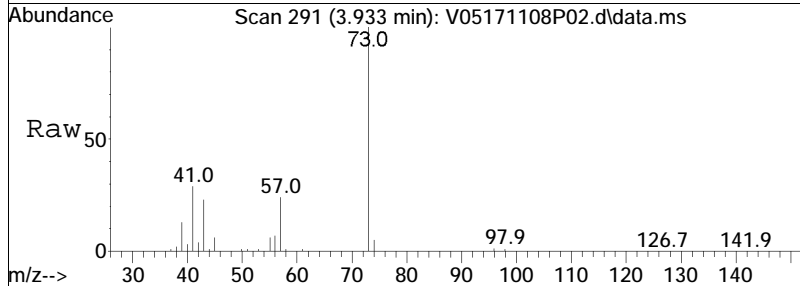
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
43	100		
74	19.6	15.3	22.9
59	21.8	18.6	28.0

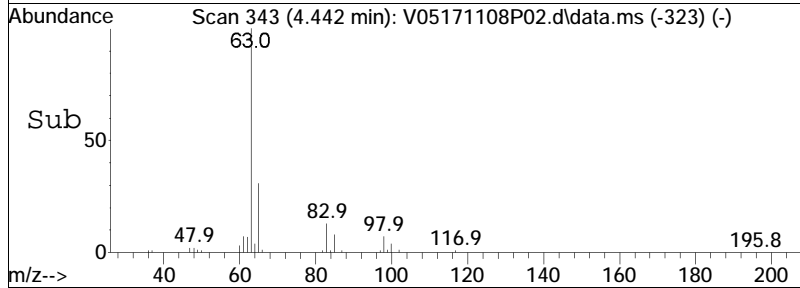
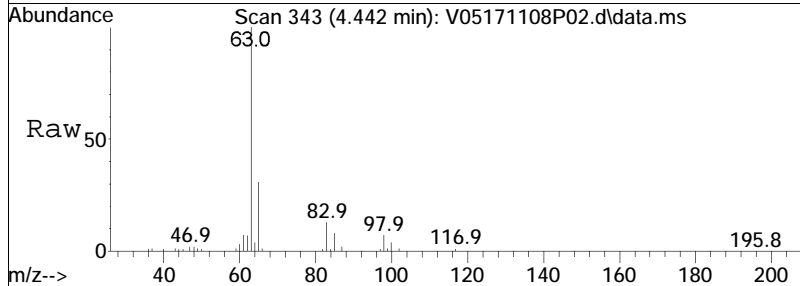
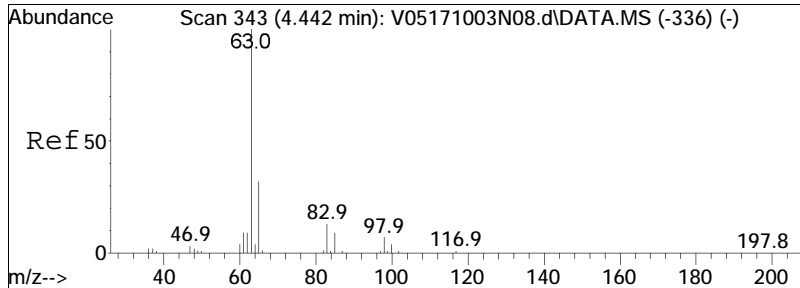




#20
 Methyl tert-butyl ether
 Concen: 10.64 ug/L
 RT: 3.933 min Scan# 291
 Delta R.T. -0.010 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

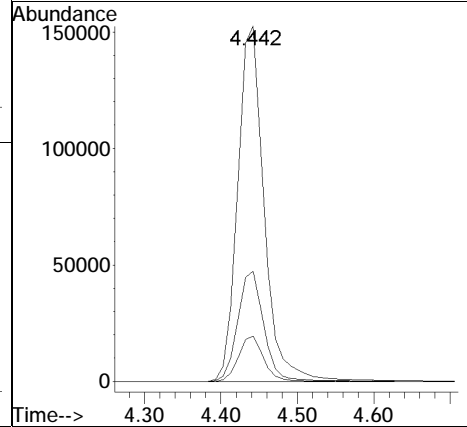
Tgt Ion	Resp	Lower	Upper
73	100		
57	23.5	14.3	29.7
43	23.1	16.8	35.0
41	27.8	20.9	43.3

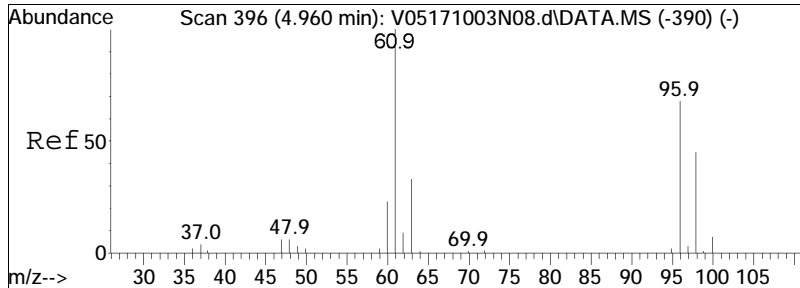




#23
 1,1-Dichloroethane
 Concen: 11.36 ug/L
 RT: 4.442 min Scan# 343
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

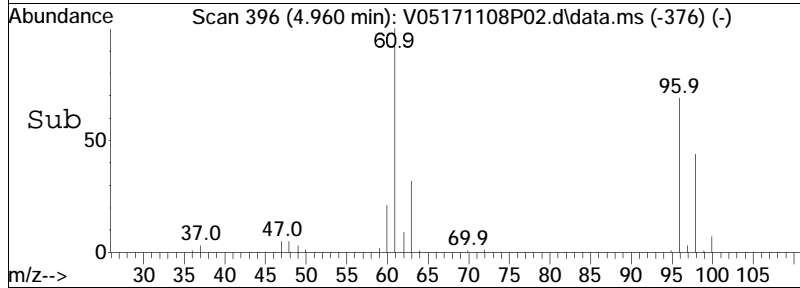
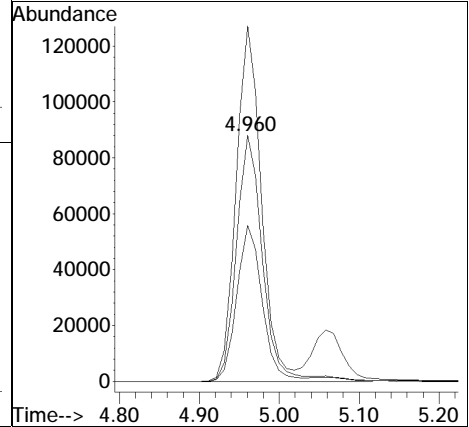
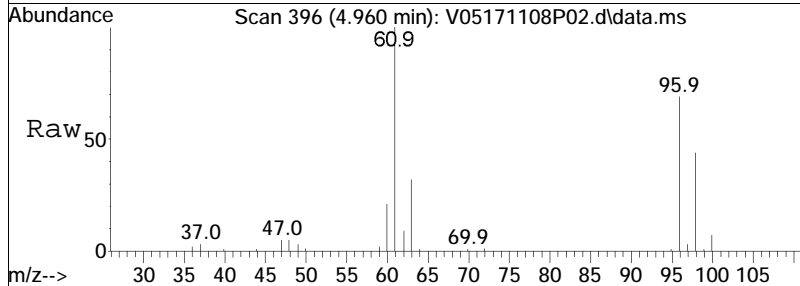
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
63	100		
65	30.7	11.6	51.6
83	12.2	0.0	33.0

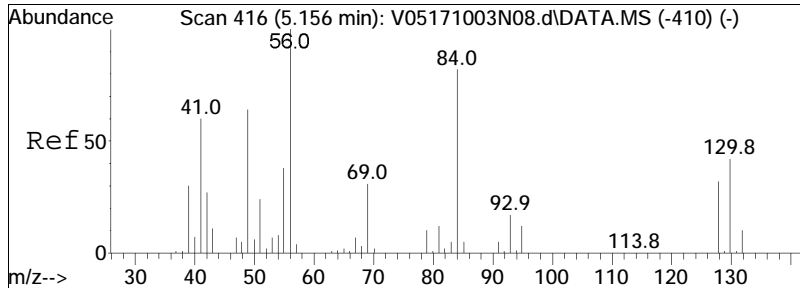




#28
 cis-1,2-Dichloroethene
 Concen: 10.40 ug/L
 RT: 4.960 min Scan# 396
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

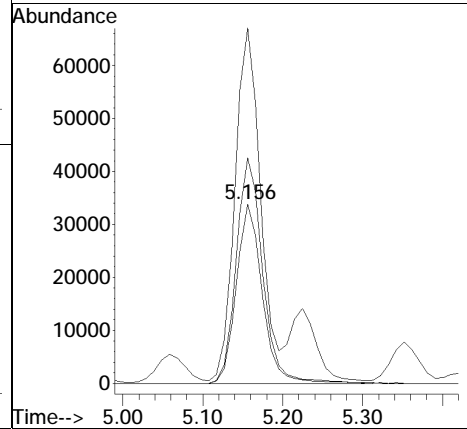
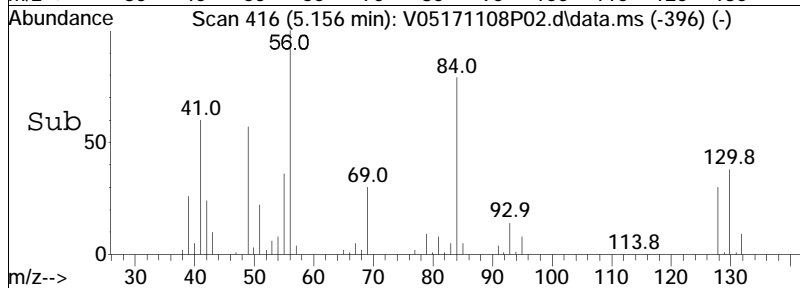
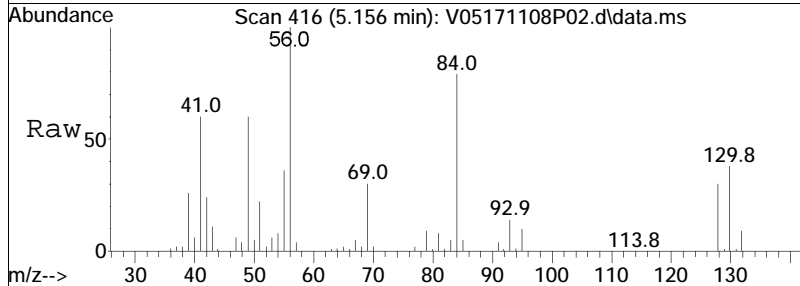
Tgt Ion	Resp	Lower	Upper
96	201193		
61	138.3	113.7	170.5
98	61.2	51.2	76.8

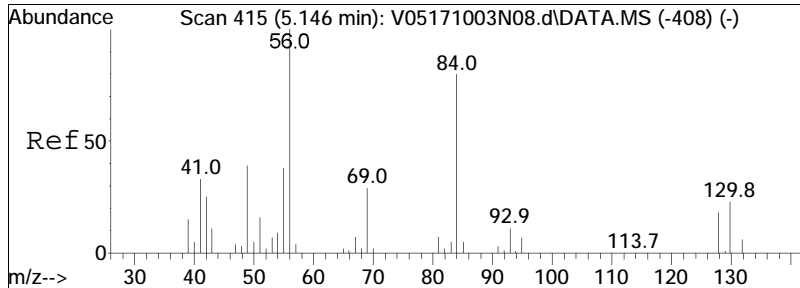




#30
 Bromochloromethane
 Concen: 8.74 ug/L
 RT: 5.156 min Scan# 416
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

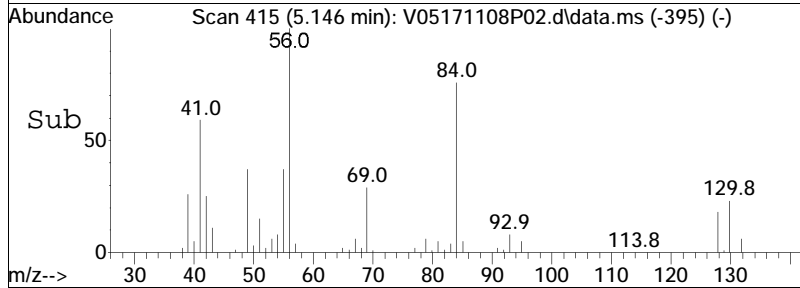
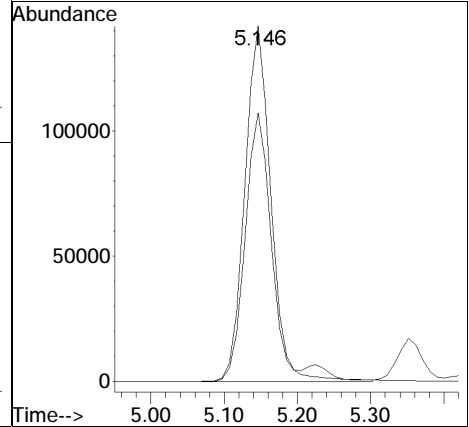
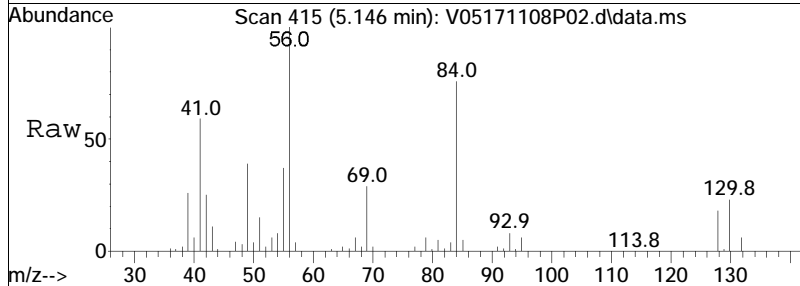
Tgt Ion	Resp	Lower	Upper
128	76895		
128	100		
49	191.9	155.4	233.0
130	127.3	101.9	152.9

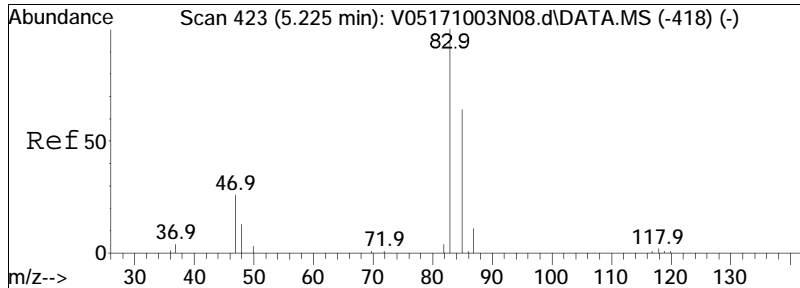




#31
 Cyclohexane
 Concen: 12.51 ug/L
 RT: 5.146 min Scan# 415
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

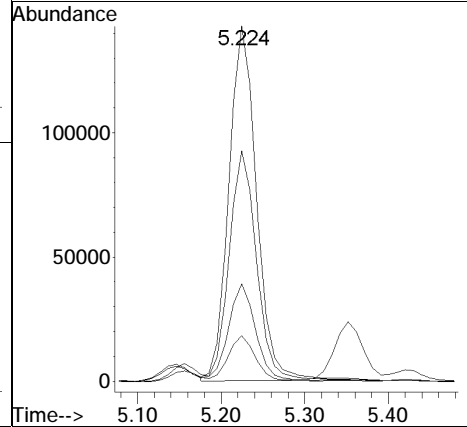
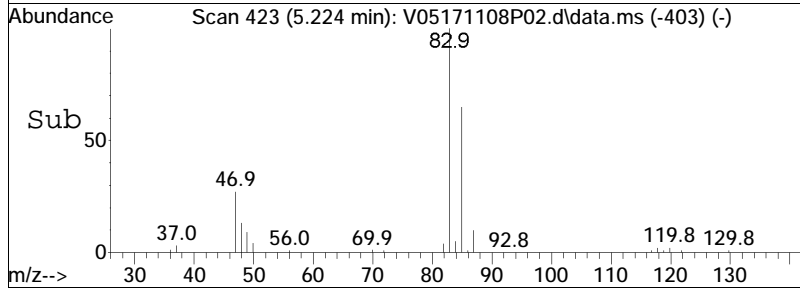
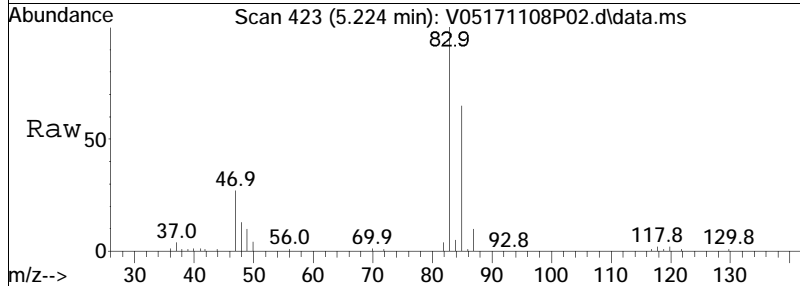
Tgt Ion	Resp	Lower	Upper
56	100		
84	75.0	51.3	106.5

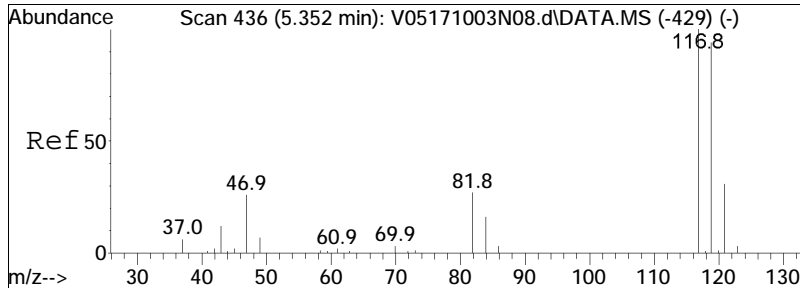




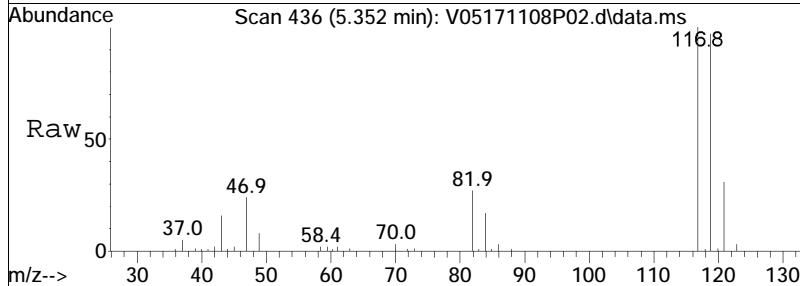
#32
 Chloroform
 Concen: 9.29 ug/L
 RT: 5.224 min Scan# 423
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

Tgt Ion	Resp	Lower	Upper
83	329436		
85	64.5	42.4	88.2
47	25.4	17.9	37.1
48	12.6	9.1	18.9

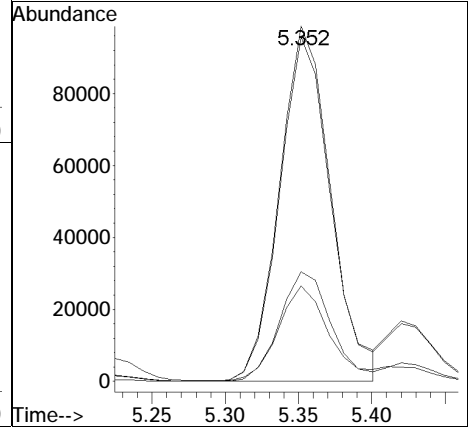
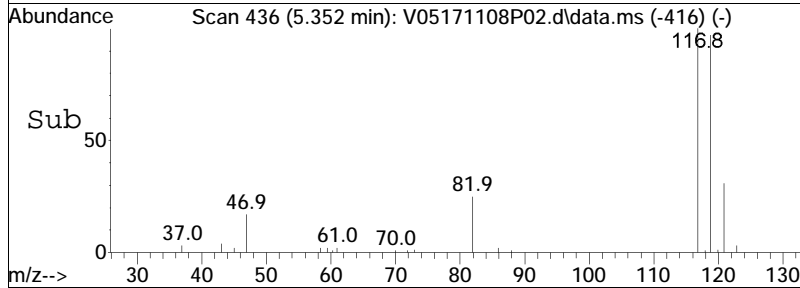


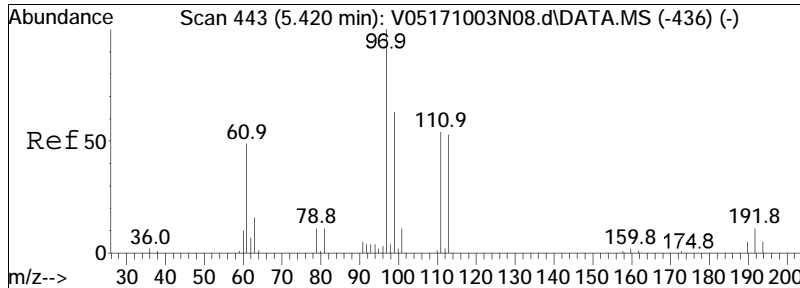


#34
 Carbon tetrachloride
 Concen: 7.82 ug/L
 RT: 5.352 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm



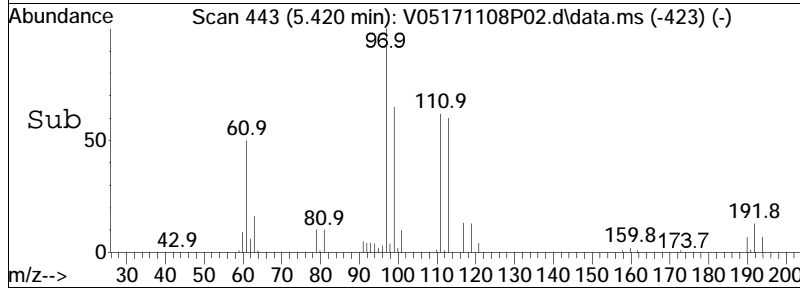
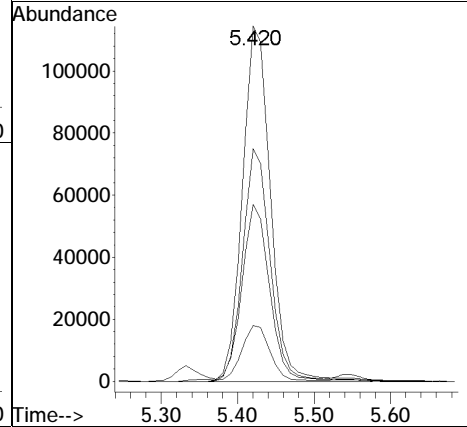
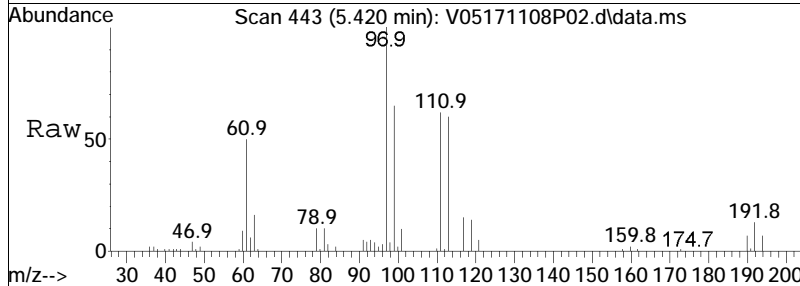
Tgt Ion	Resp	Lower	Upper
117	100		
119	96.5	62.2	129.2
121	31.1	20.2	41.9
82	26.5	17.6	36.6

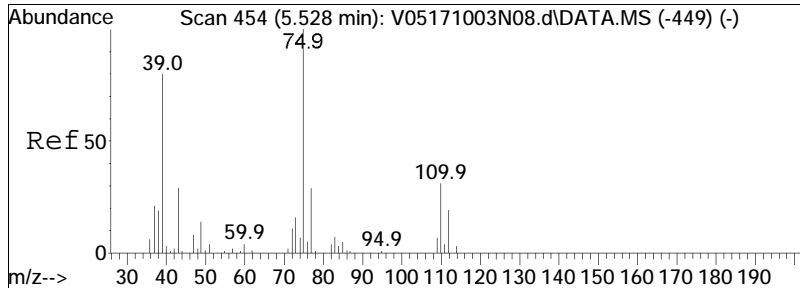




#37
 1,1,1-Trichloroethane
 Concen: 8.58 ug/L
 RT: 5.420 min Scan# 443
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

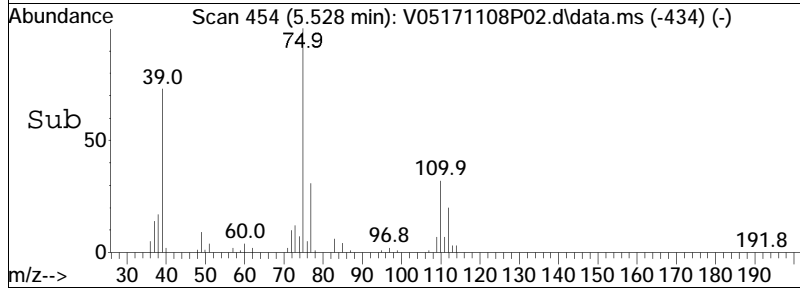
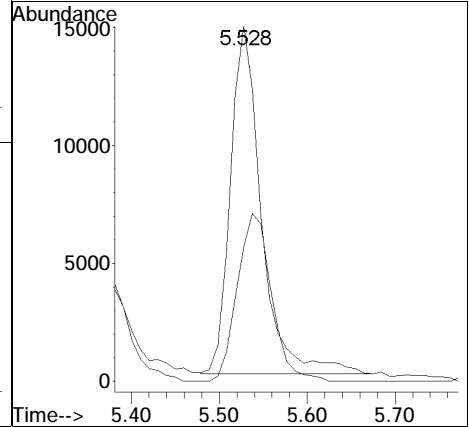
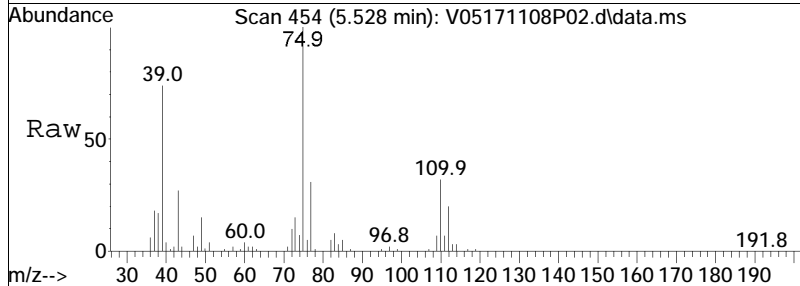
Tgt Ion	Resp	Lower	Upper
97	293726		
97	100		
99	64.1	42.3	87.9
61	48.1	31.3	64.9
63	15.7	10.1	20.9

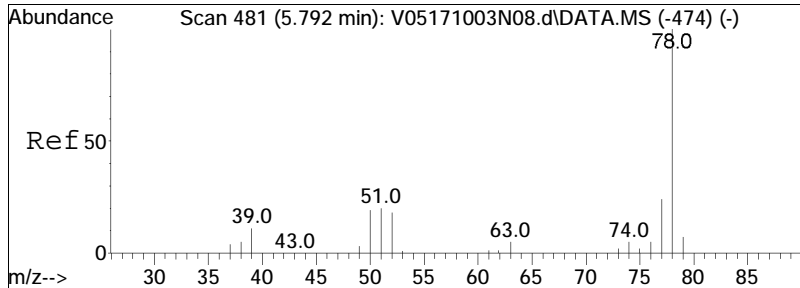




#39
 2-Butanone
 Concen: 11.46 ug/L
 RT: 5.528 min Scan# 454
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

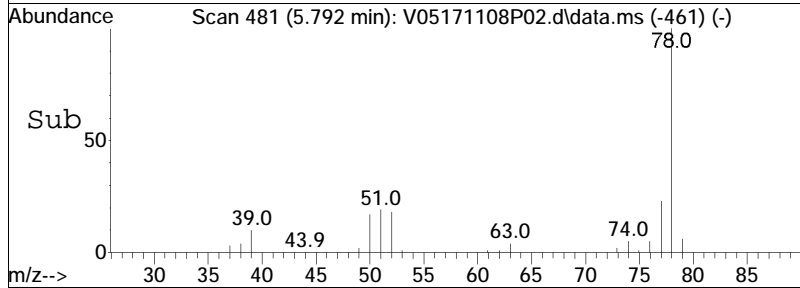
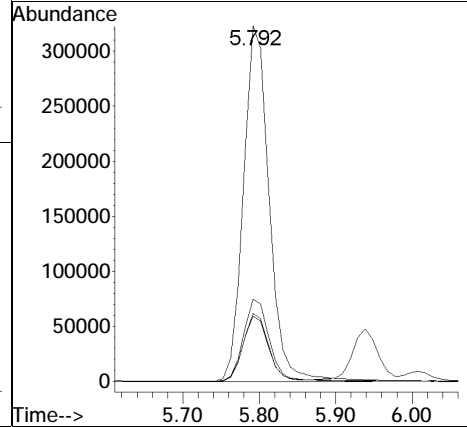
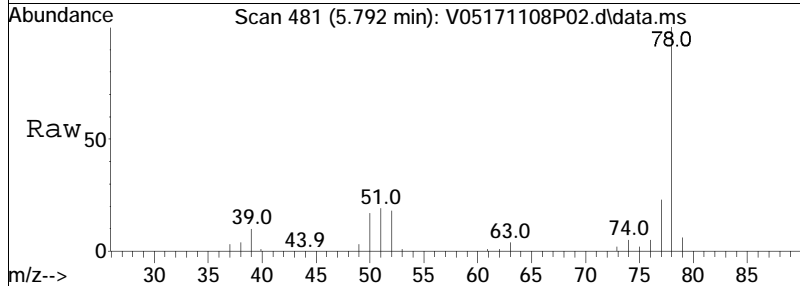
Tgt Ion: 43 Resp: 36067
 Ion Ratio Lower Upper
 43 100
 72 53.4 44.2 66.4

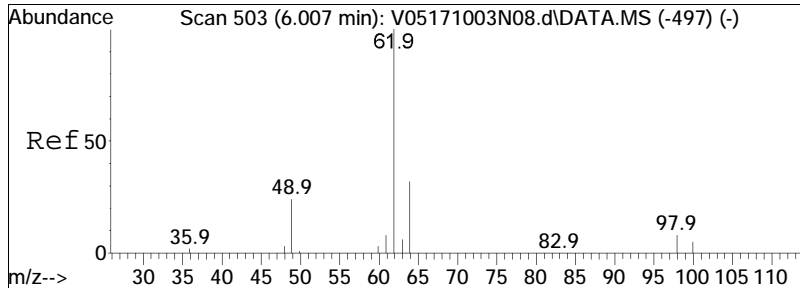




#41
Benzene
Concen: 11.04 ug/L
RT: 5.792 min Scan# 481
Delta R.T. -0.000 min
Lab File: V05171108P02.d
Acq: 8 Nov 2017 9:18 pm

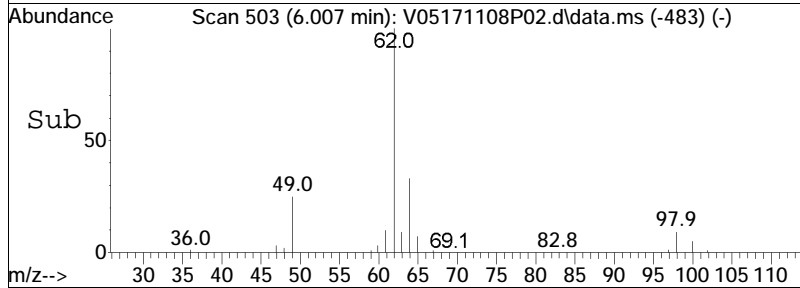
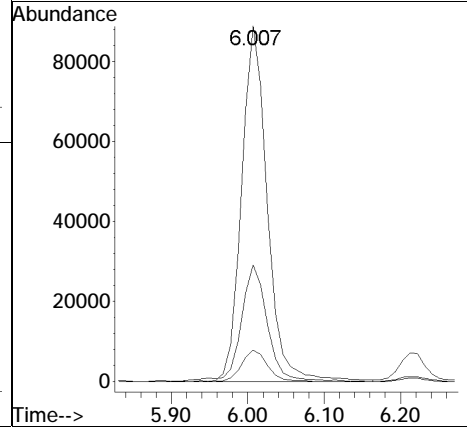
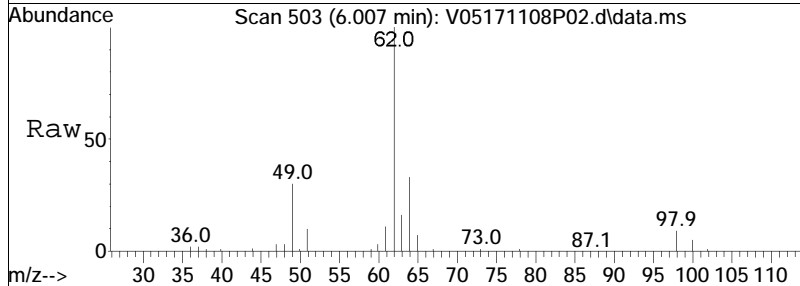
Tgt Ion	Resp	Lower	Upper
78	100		
77	23.1	15.3	31.9
51	18.8	12.5	25.9
52	18.6	11.4	23.6

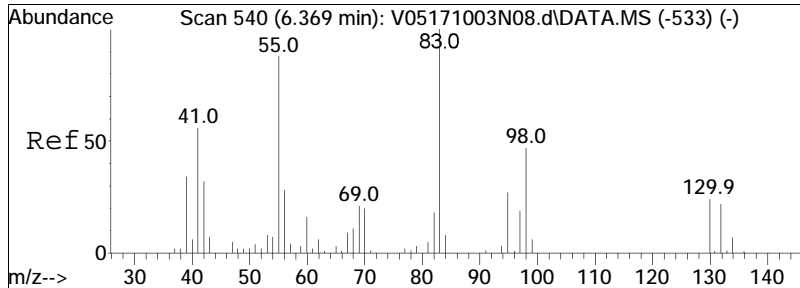




#44
 1,2-Dichloroethane
 Concen: 8.88 ug/L
 RT: 6.007 min Scan# 503
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

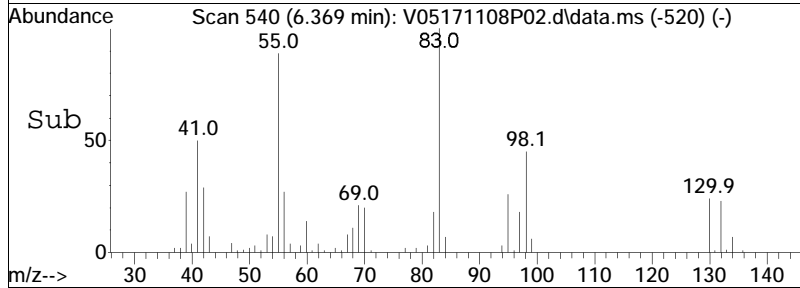
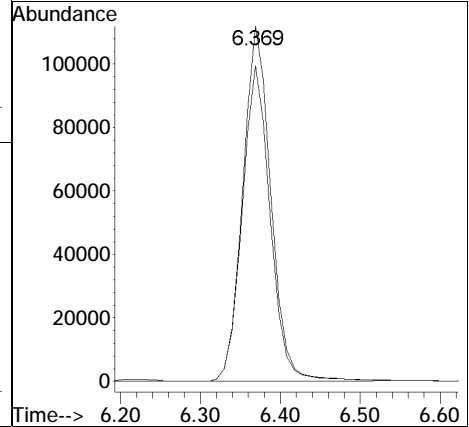
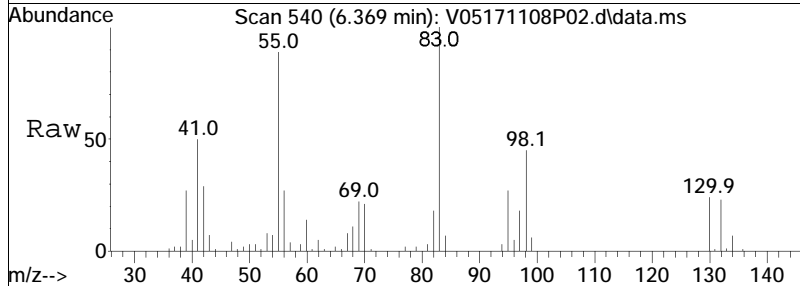
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
62	100		
64	33.4	13.1	53.1
98	8.8	0.0	27.8

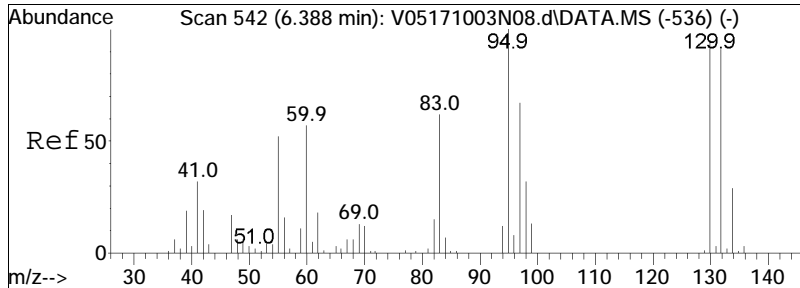




#47
 Methyl cyclohexane
 Concen: 11.08 ug/L
 RT: 6.369 min Scan# 540
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

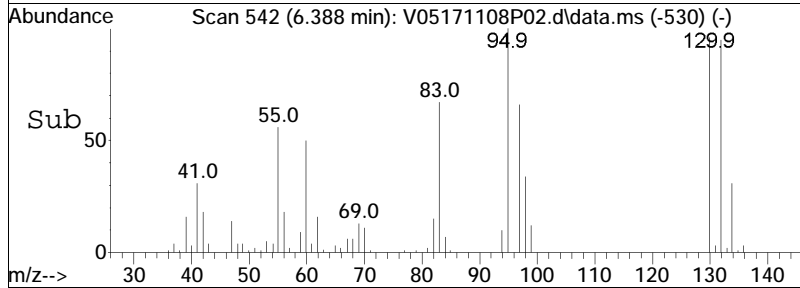
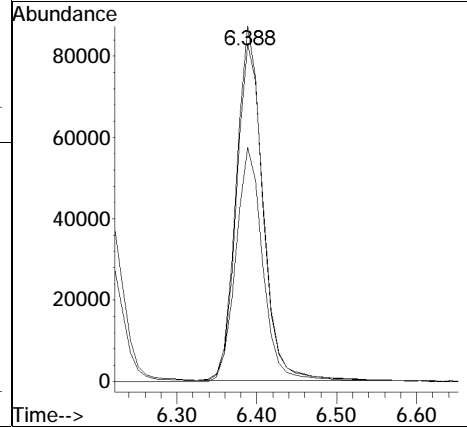
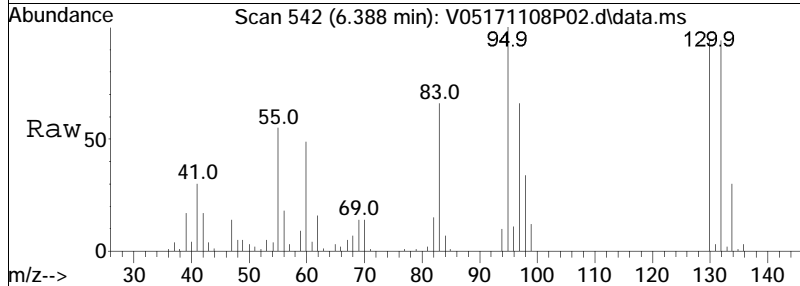
Tgt Ion: 83 Resp: 274596
 Ion Ratio Lower Upper
 83 100
 55 88.8 69.5 104.3

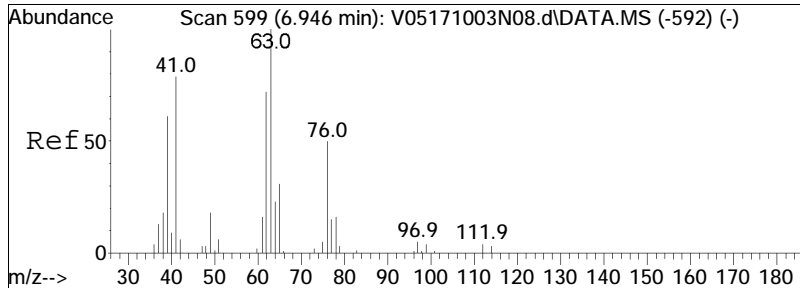




#48
 Trichloroethene
 Concen: 9.31 ug/L
 RT: 6.388 min Scan# 542
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

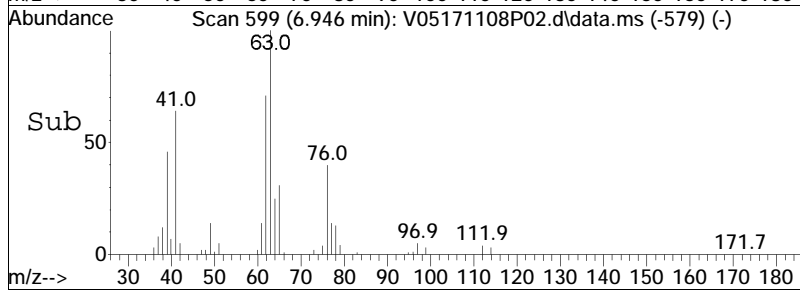
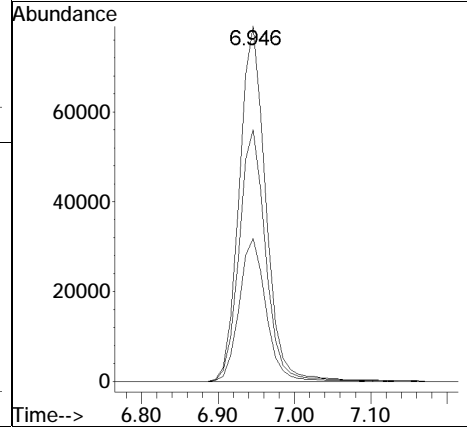
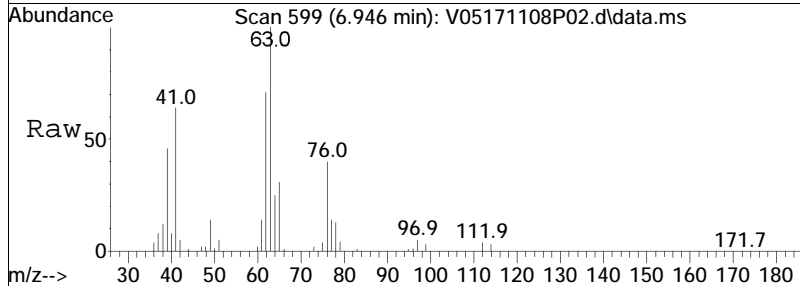
Tgt Ion	Resp	Lower	Upper
95	200333		
95	100		
97	67.1	53.5	80.3
130	98.1	75.9	113.9

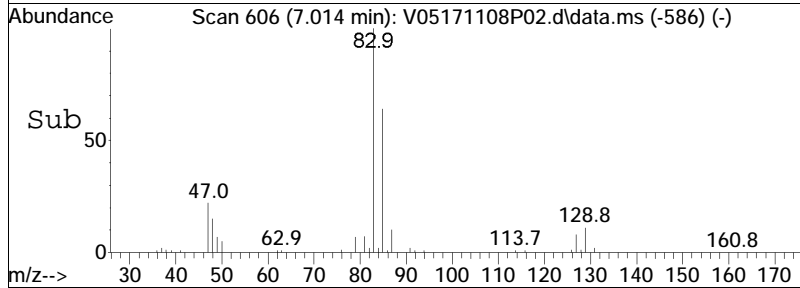
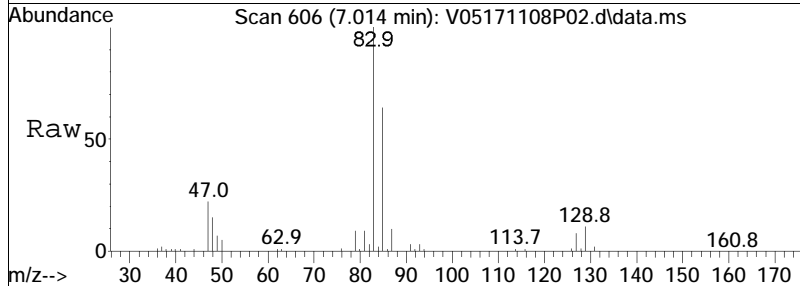
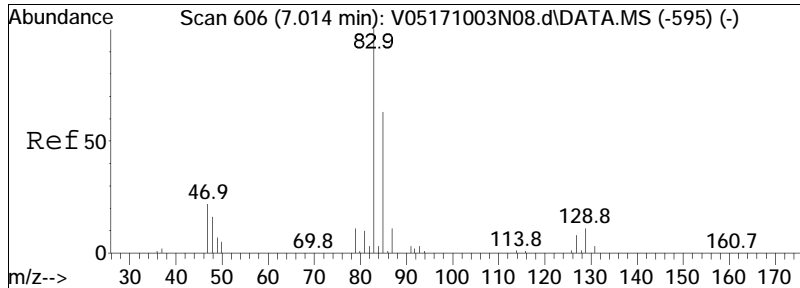




#51
 1,2-Dichloropropane
 Concen: 12.12 ug/L
 RT: 6.946 min Scan# 599
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

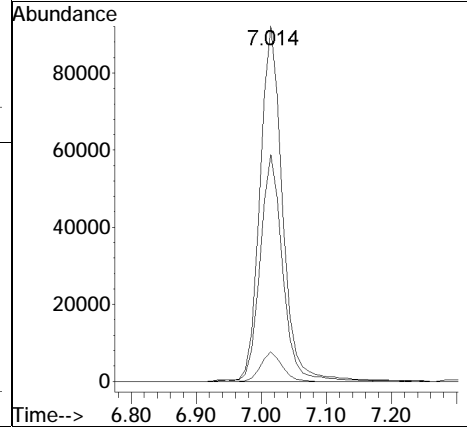
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
63	100		
62	71.1	57.4	86.2
76	40.7	39.8	59.6

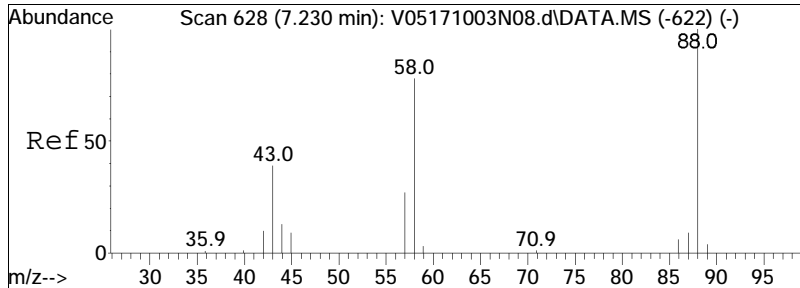




#54
 Bromodichloromethane
 Concen: 8.92 ug/L
 RT: 7.014 min Scan# 606
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

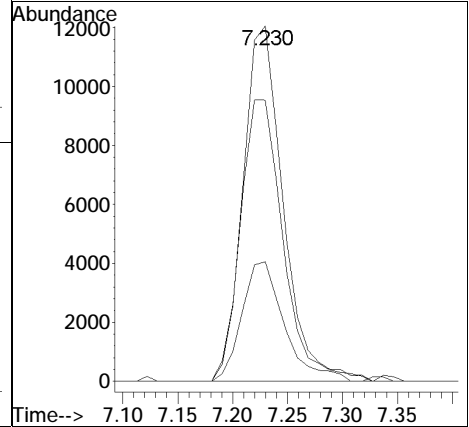
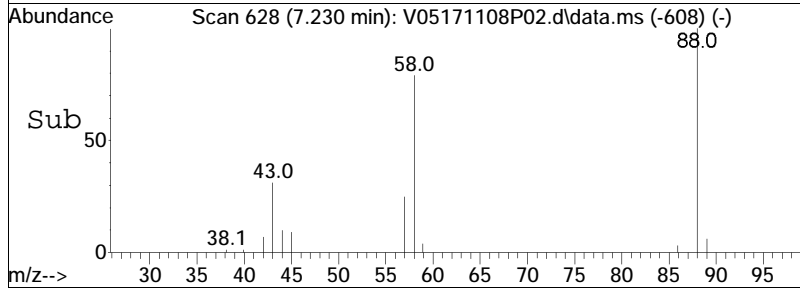
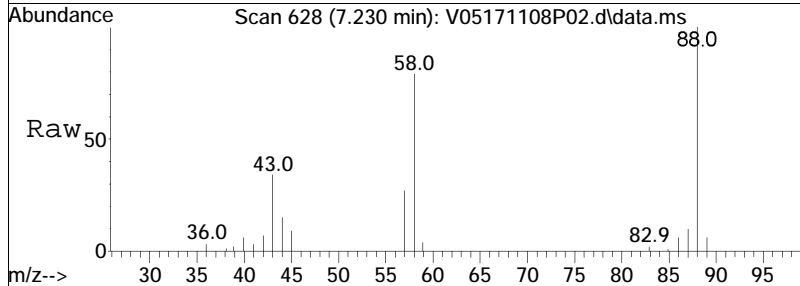
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
83	100		
85	63.8	50.3	75.5
127	7.8	6.6	9.8

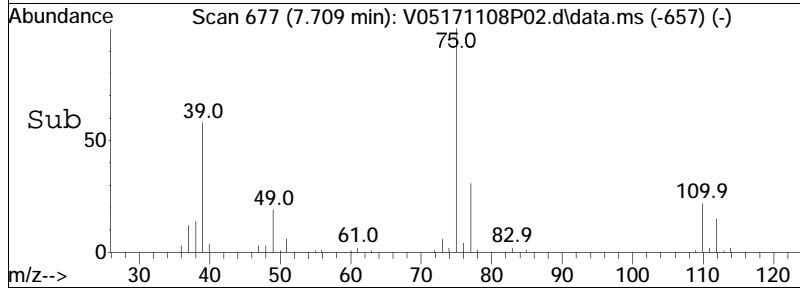
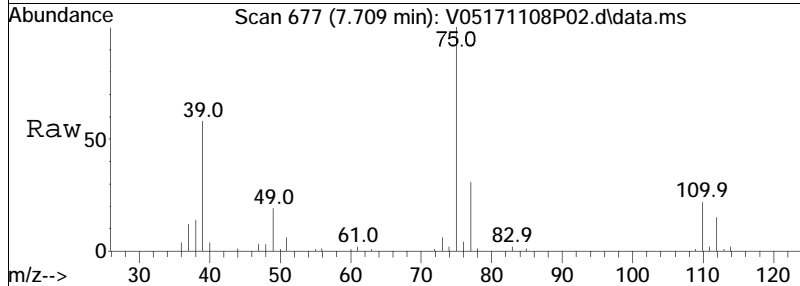
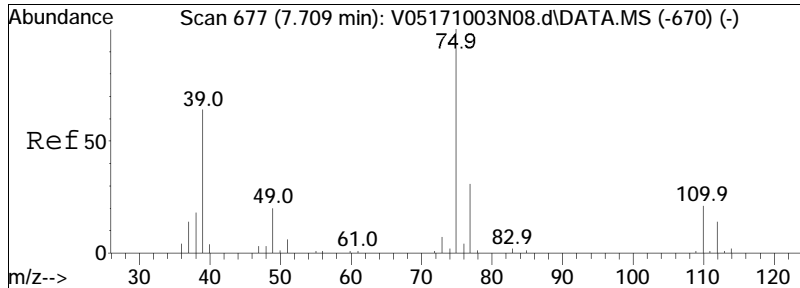




#57
 1,4-Dioxane
 Concen: 480.47 ug/L
 RT: 7.230 min Scan# 628
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

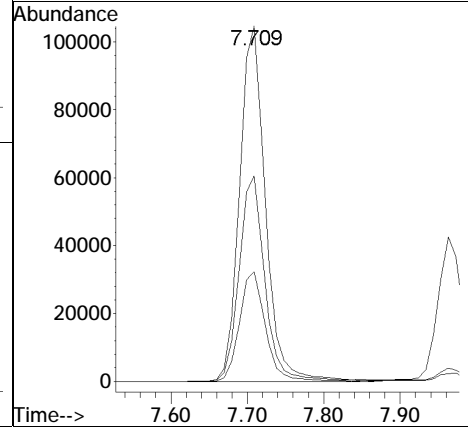
Tgt Ion	Resp	Lower	Upper
88	30671		
88	100		
58	84.2	61.5	92.3
43	35.8	30.5	45.7

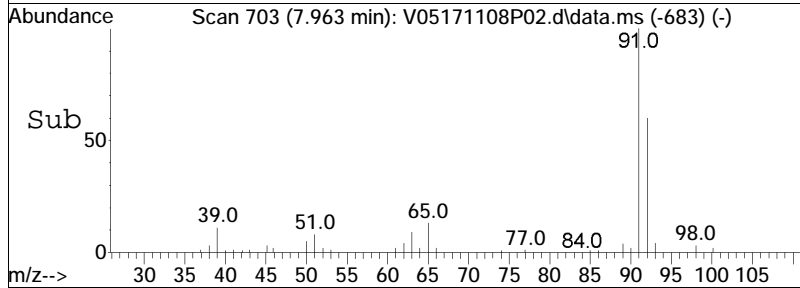
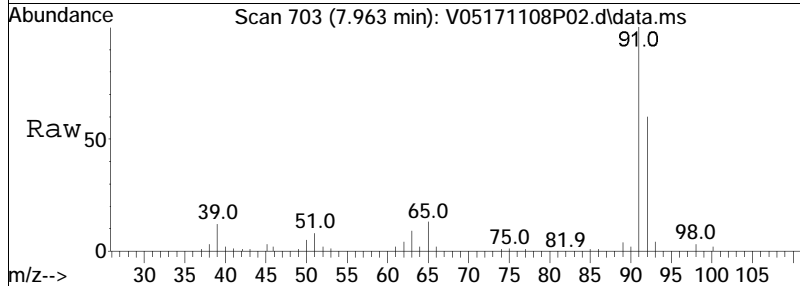
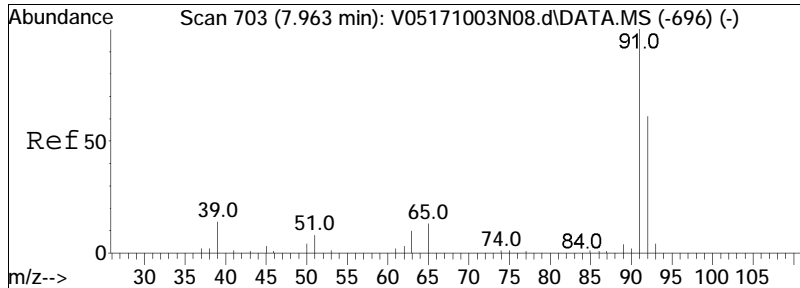




#58
 cis-1,3-Dichloropropene
 Concen: 9.02 ug/L
 RT: 7.709 min Scan# 677
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

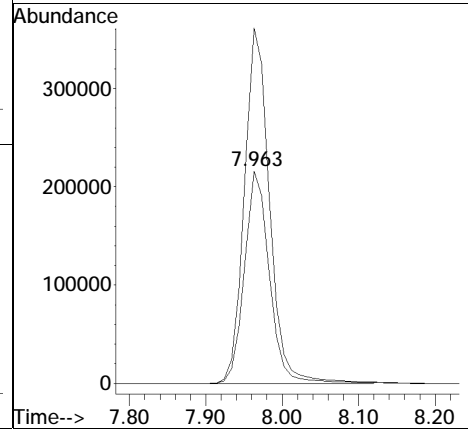
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.1	37.7
39	57.9	53.4	80.2

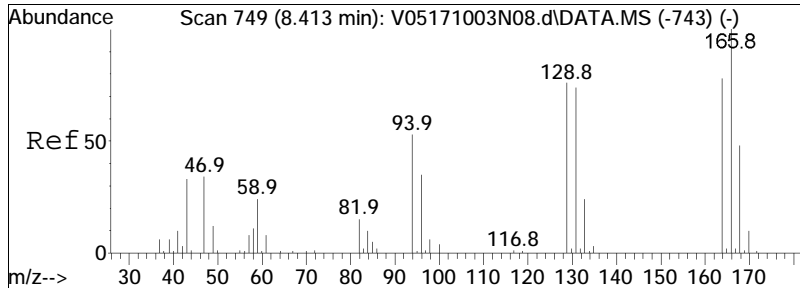




#61
 Toluene
 Concen: 11.35 ug/L
 RT: 7.963 min Scan# 703
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

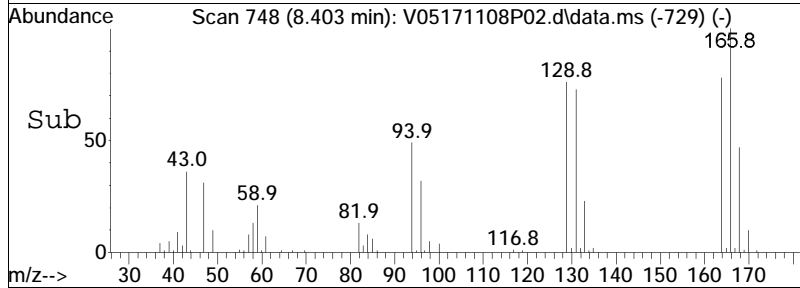
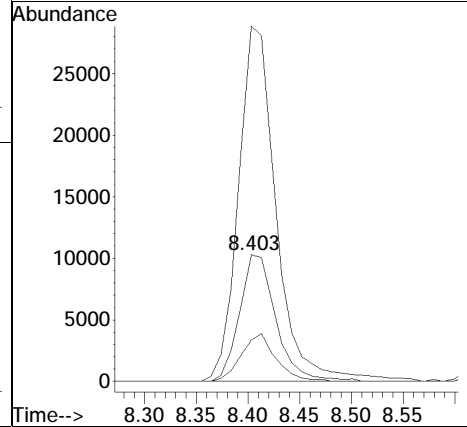
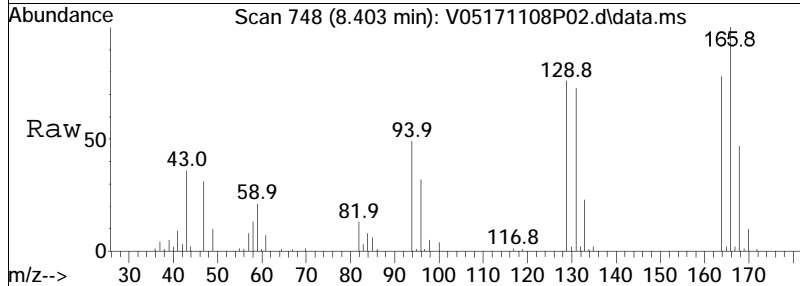
Tgt Ion:	Resp:	Lower	Upper
92	490745		
91	168.7	133.0	199.4

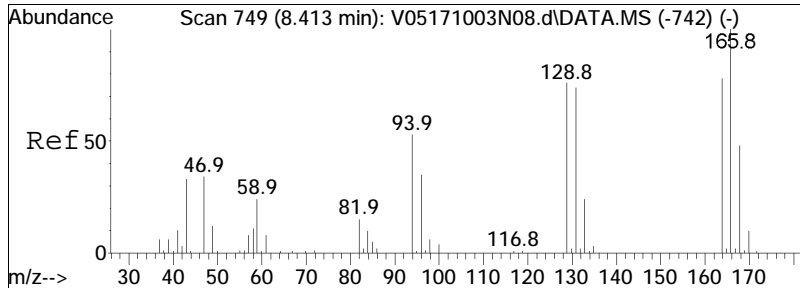




#62
 4-Methyl-2-pentanone
 Concen: 11.69 ug/L
 RT: 8.403 min Scan# 748
 Delta R.T. -0.010 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

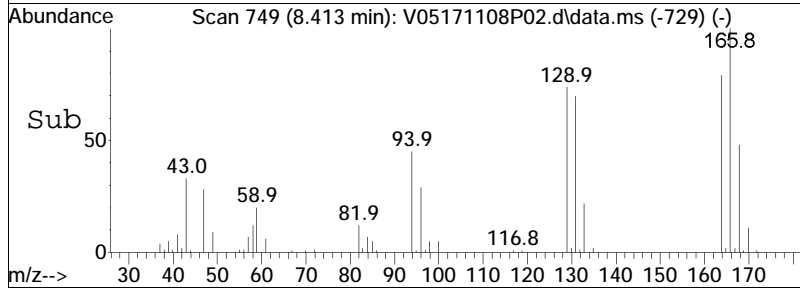
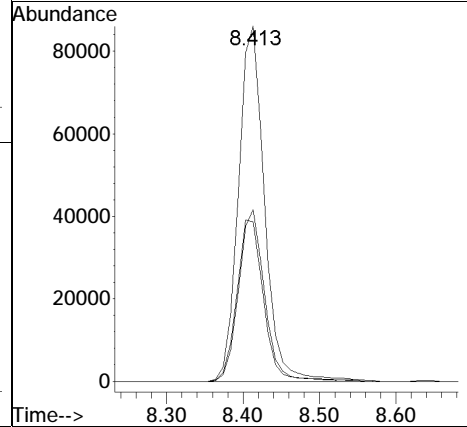
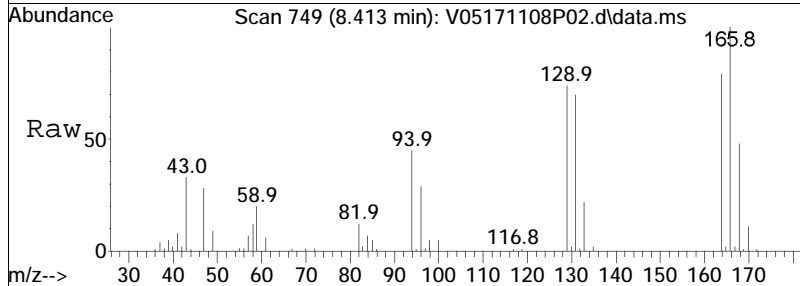
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
58	100		
100	35.8	29.3	43.9
43	291.6	247.4	371.0

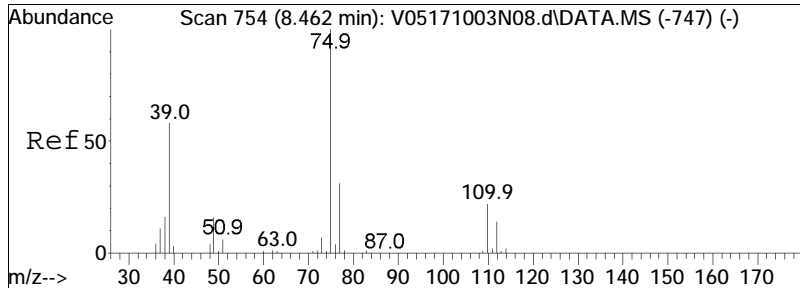




#63
 Tetrachloroethene
 Concen: 8.58 ug/L
 RT: 8.413 min Scan# 749
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

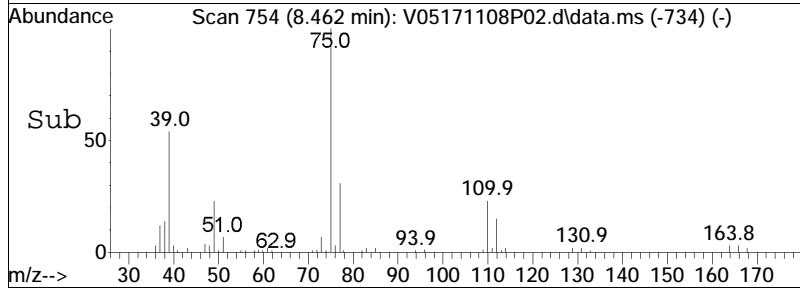
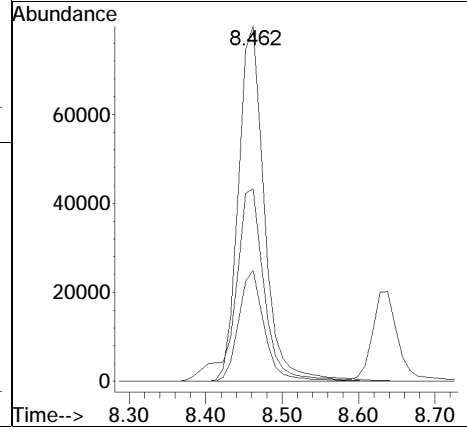
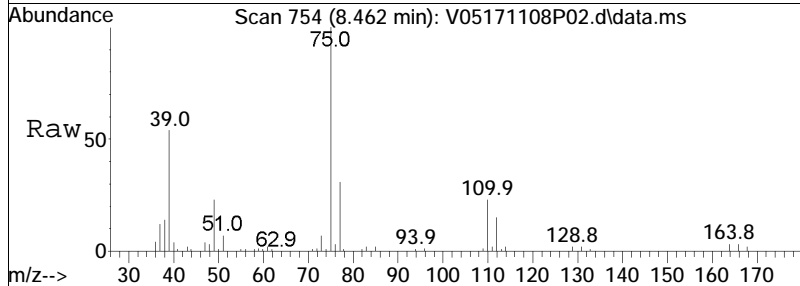
Tgt Ion	Resp	Lower	Upper
166	100		
168	48.0	27.2	67.2
94	46.4	35.8	75.8

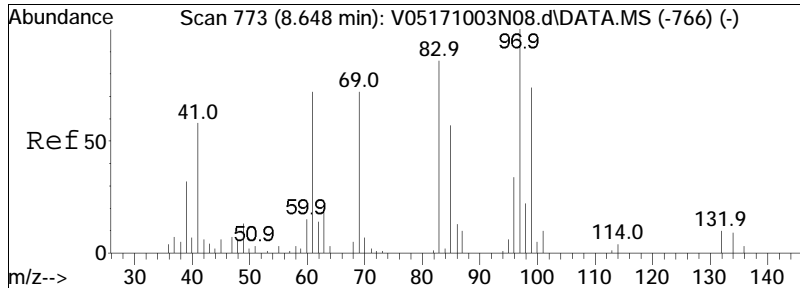




#65
 trans-1,3-Dichloropropene
 Concen: 9.21 ug/L
 RT: 8.462 min Scan# 754
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

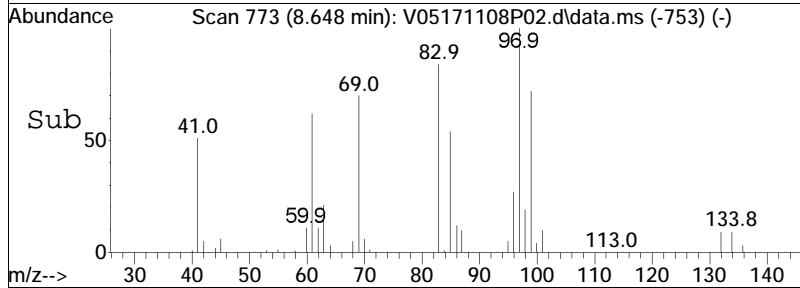
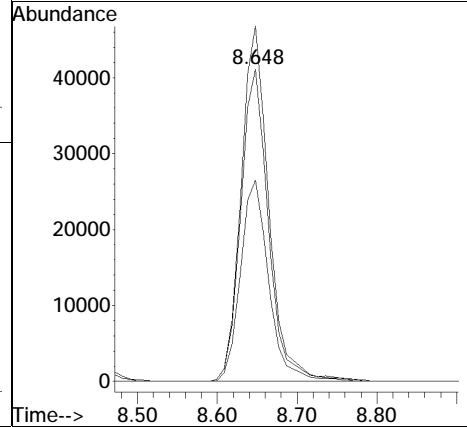
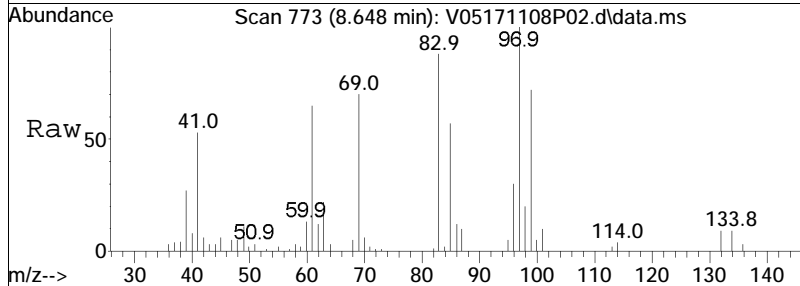
Tgt Ion	Resp	Lower	Upper
75	189361		
75	100		
77	31.2	10.9	50.9
39	60.3	48.1	88.1

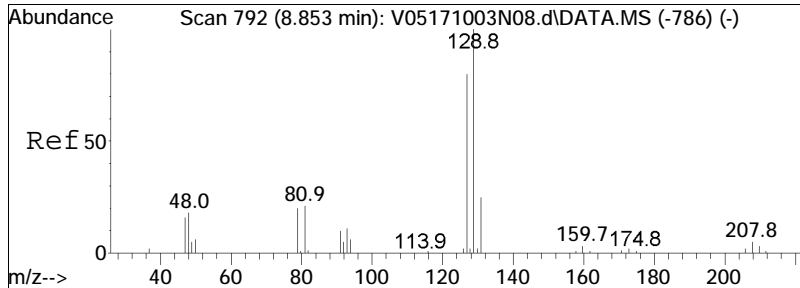




#68
 1,1,2-Trichloroethane
 Concen: 11.26 ug/L
 RT: 8.648 min Scan# 773
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

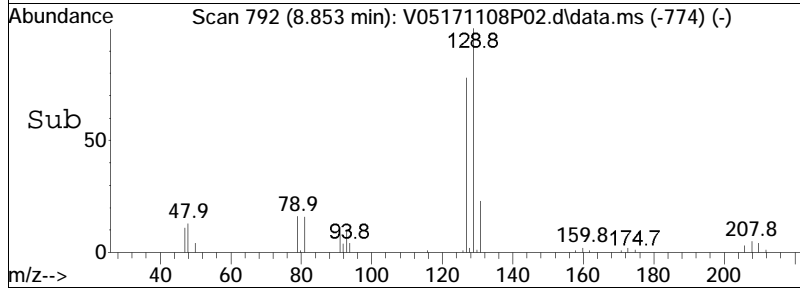
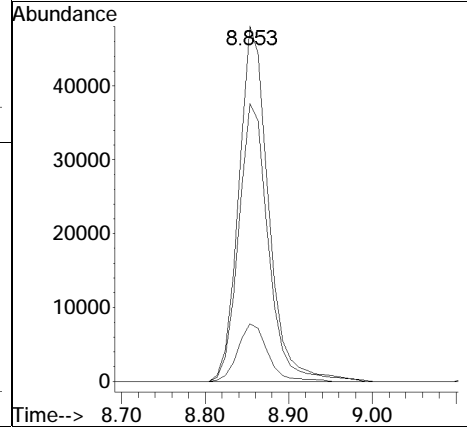
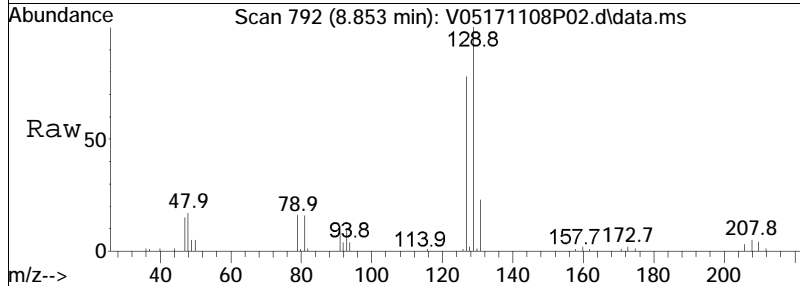
Tgt Ion:	83	Resp:	107244
Ion Ratio	Lower	Upper	
83	100		
97	113.3	93.6	133.6
85	66.2	46.9	86.9

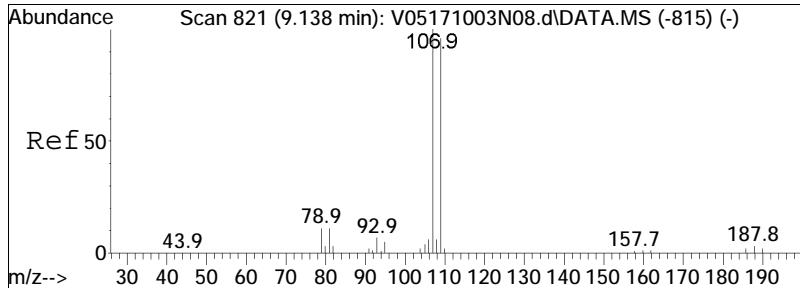




#69
 Chlorodibromomethane
 Concen: 8.63 ug/L
 RT: 8.853 min Scan# 792
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

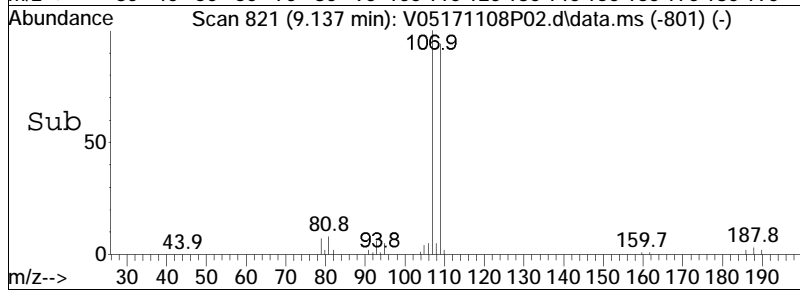
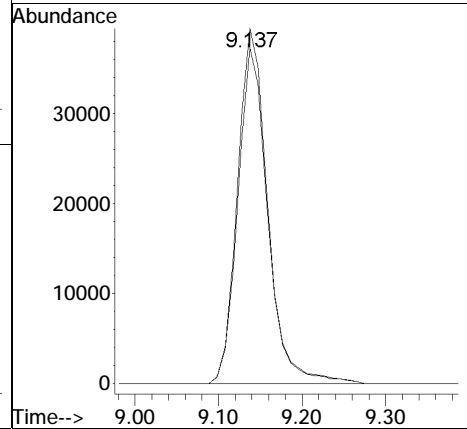
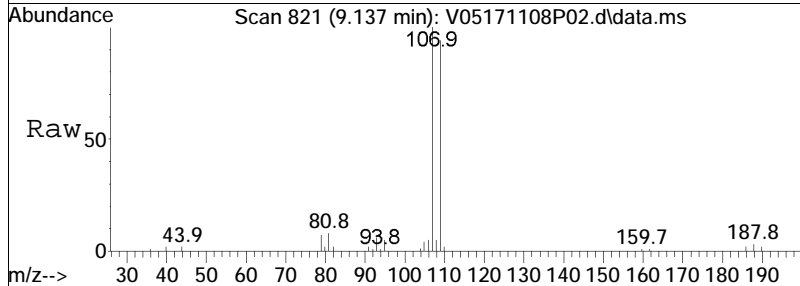
Tgt Ion	Resp	Lower	Upper
129	119046		
129	100		
81	16.3	0.0	40.0
127	78.1	57.9	97.9

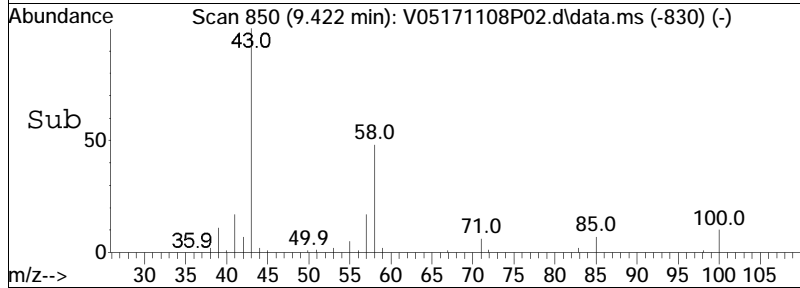
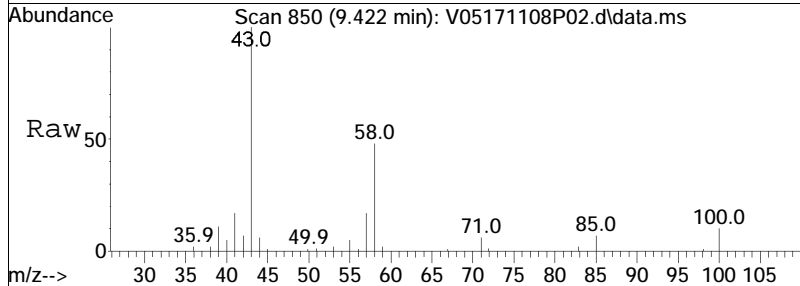
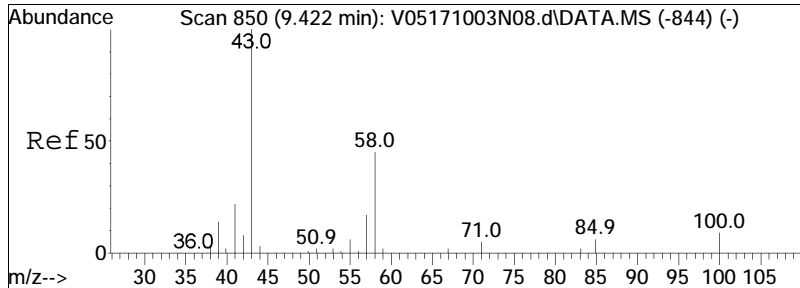




#71
 1,2-Dibromoethane
 Concen: 10.16 ug/L
 RT: 9.137 min Scan# 821
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

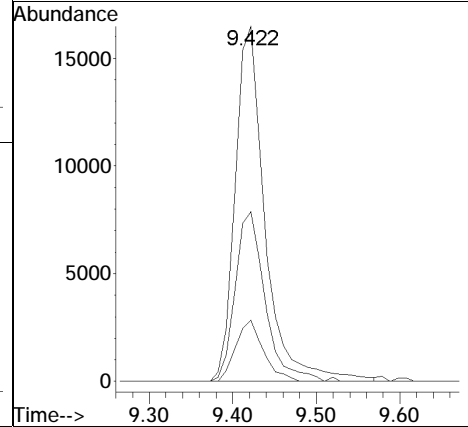
Tgt Ion	Resp	Lower	Upper
107	100		
109	93.8	75.5	113.3

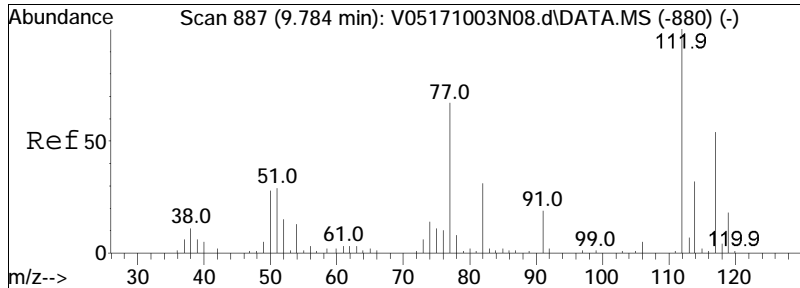




#72
 2-Hexanone
 Concen: 9.56 ug/L
 RT: 9.422 min Scan# 850
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

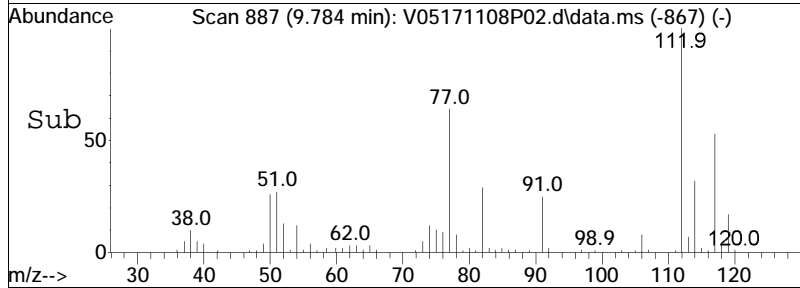
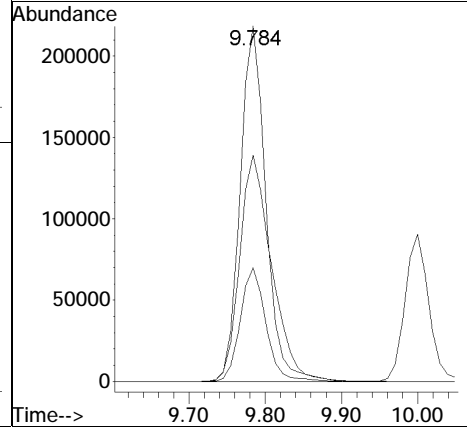
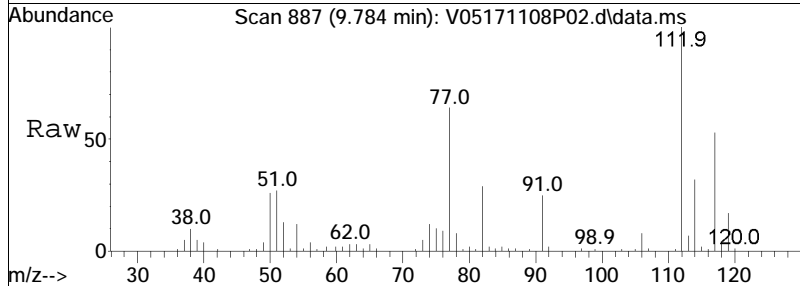
Tgt Ion:	43	Resp:	41089
Ion Ratio	Lower	Upper	
43	100		
58	47.8	32.8	49.2
57	16.0	11.8	17.8

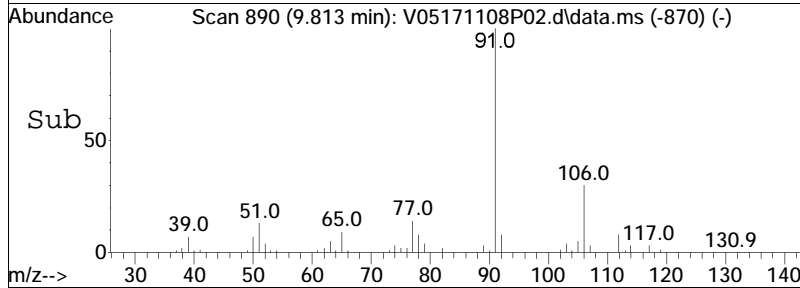
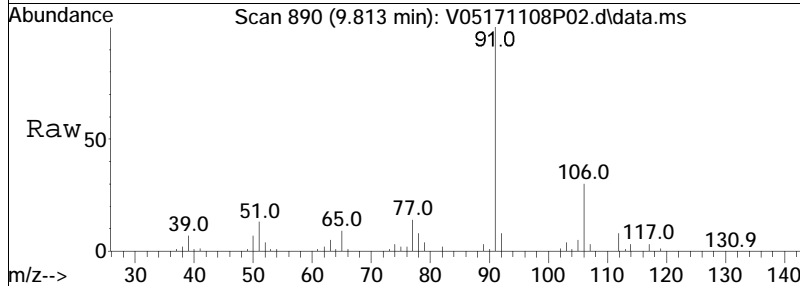
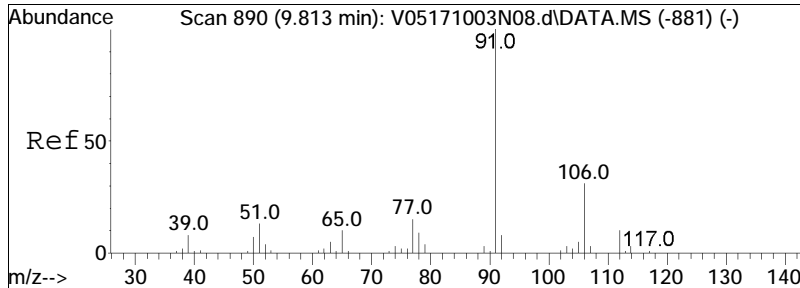




#73
 Chlorobenzene
 Concen: 10.30 ug/L
 RT: 9.784 min Scan# 887
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

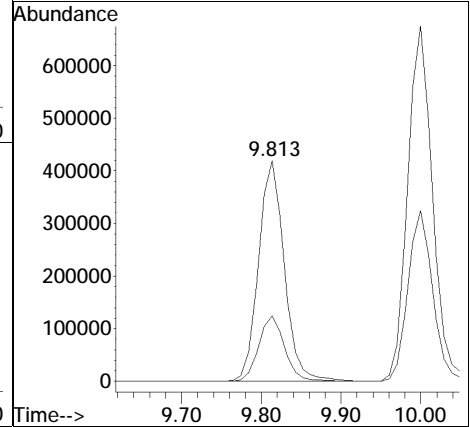
Tgt Ion	Resp	Lower	Upper
112	100		
77	79.0	67.0	100.4
114	31.9	25.6	38.4

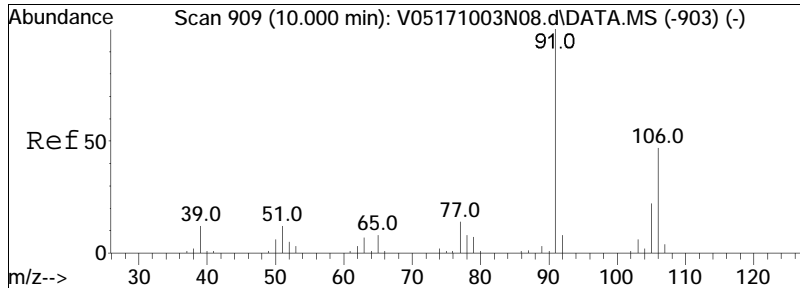




#74
 Ethylbenzene
 Concen: 11.38 ug/L
 RT: 9.813 min Scan# 890
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

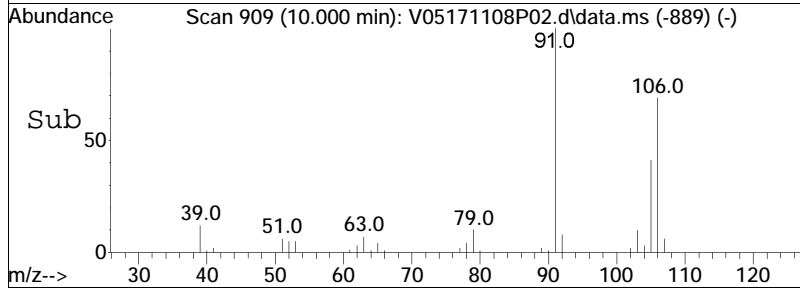
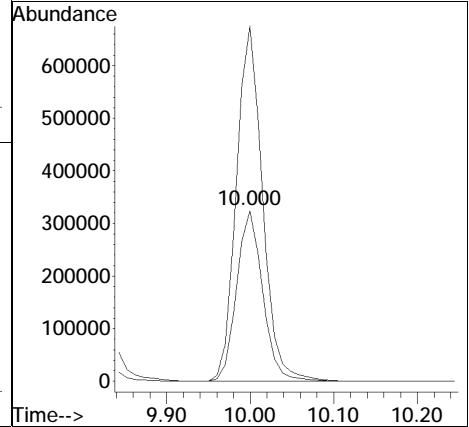
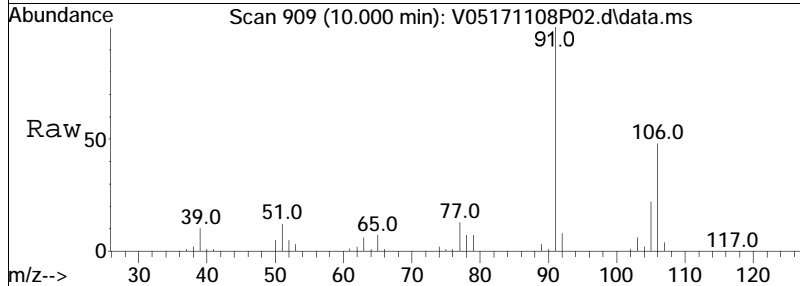
Tgt Ion: 91 Resp: 943567
 Ion Ratio Lower Upper
 91 100
 106 29.8 23.8 35.8

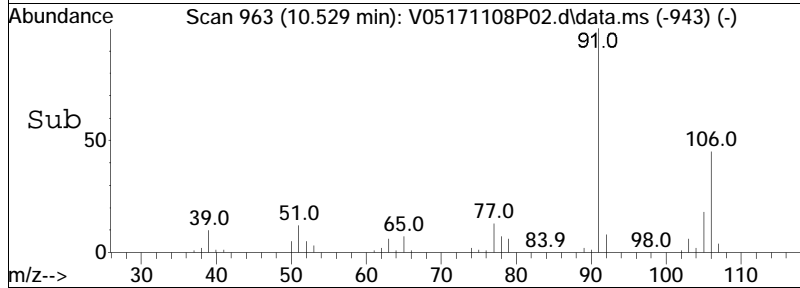
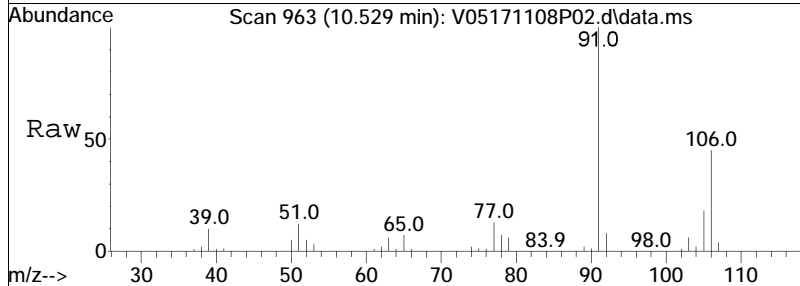
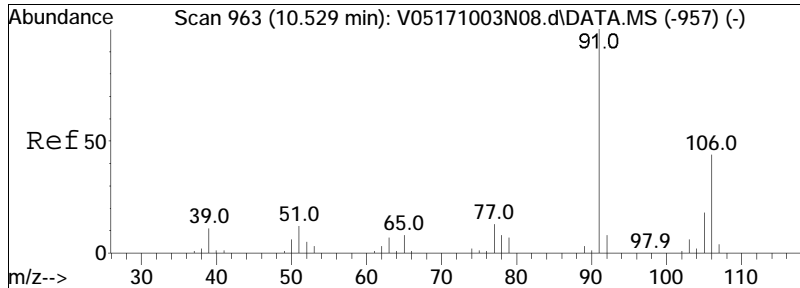




#76
 p/m Xylene
 Concen: 22.52 ug/L
 RT: 10.000 min Scan# 909
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

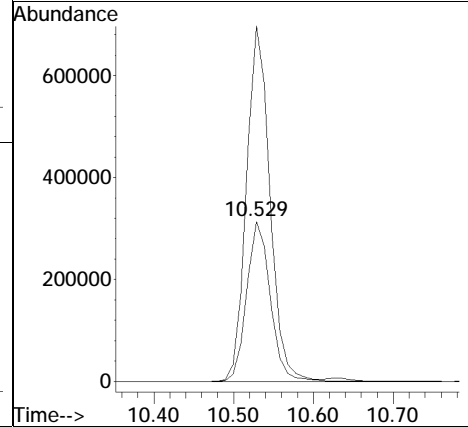
Tgt Ion	Ratio	Lower	Upper
106	100		
91	207.9	169.0	253.4

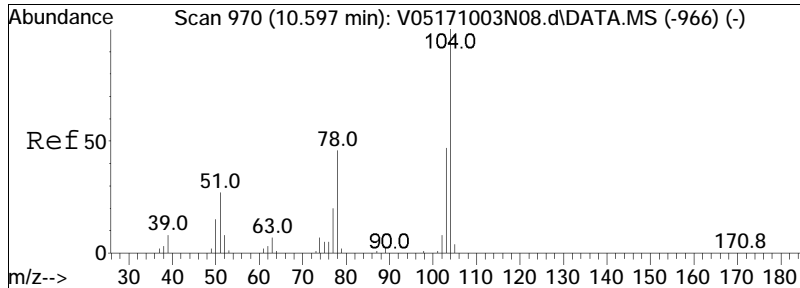




#77
 o Xylene
 Concen: 21.32 ug/L
 RT: 10.529 min Scan# 963
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

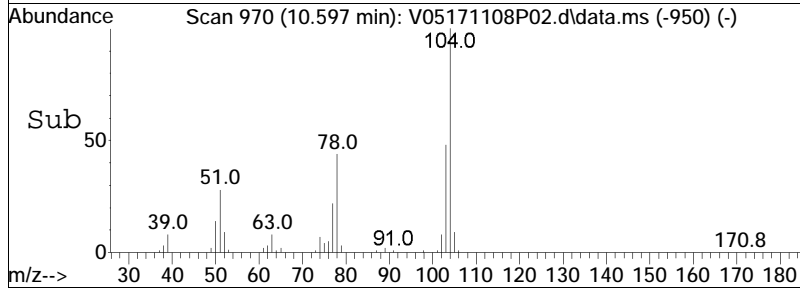
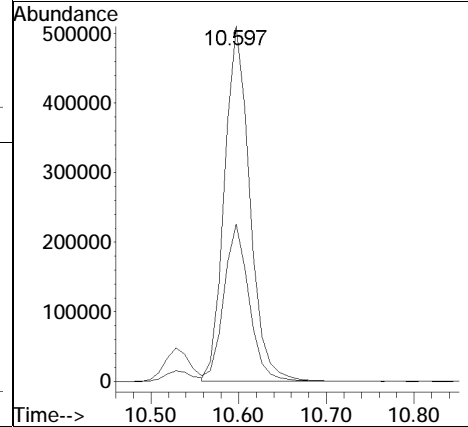
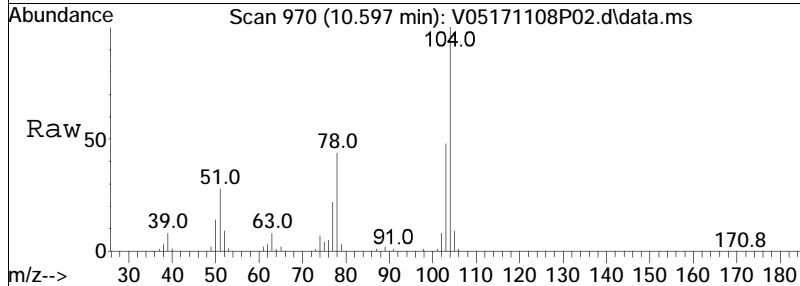
Tgt Ion	Resp	Lower	Upper
106	100		
91	220.5	178.9	268.3

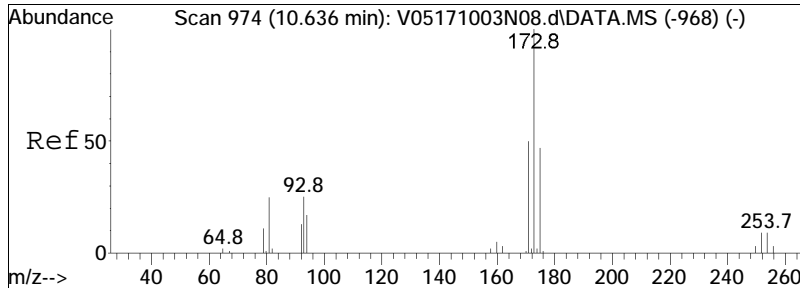




#78
 Styrene
 Concen: 21.01 ug/L
 RT: 10.597 min Scan# 970
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

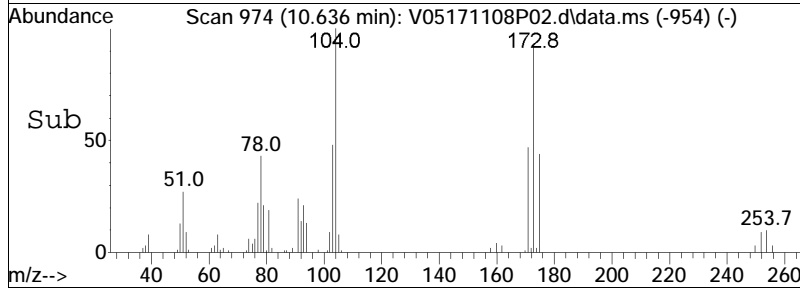
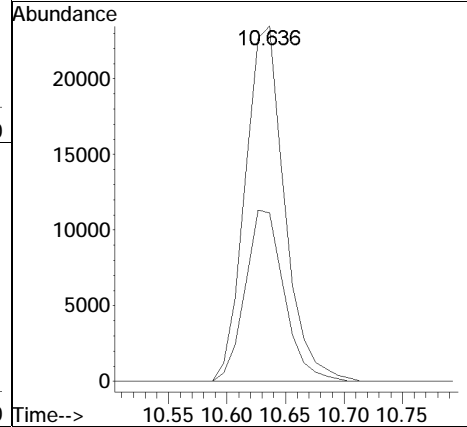
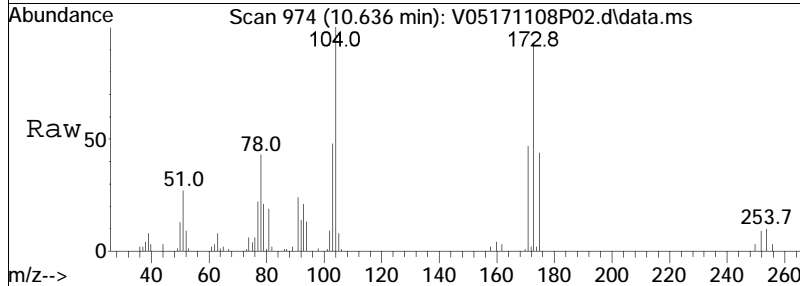
Tgt Ion: 104 Resp: 1025208
 Ion Ratio Lower Upper
 104 100
 78 44.0 37.9 56.9

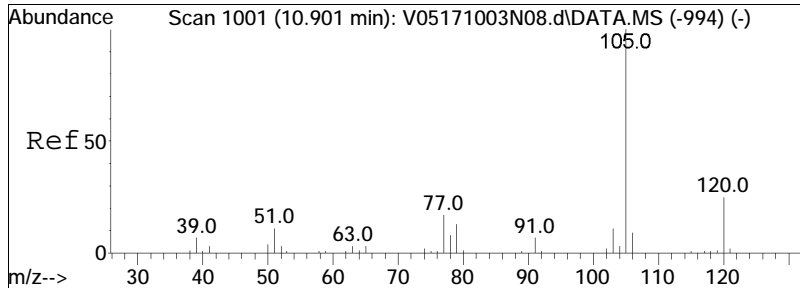




#80
 Bromoform
 Concen: 8.59 ug/L
 RT: 10.636 min Scan# 974
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

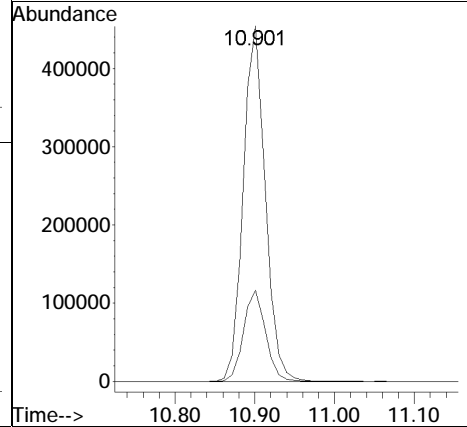
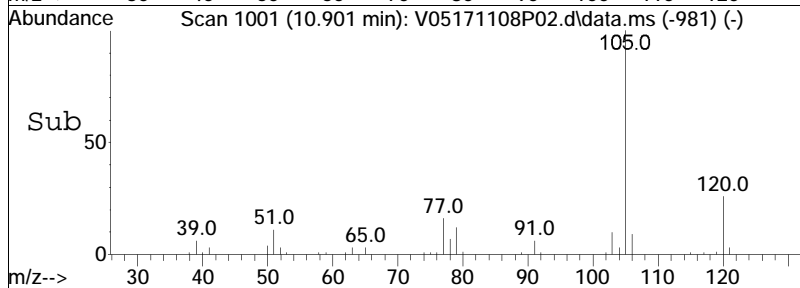
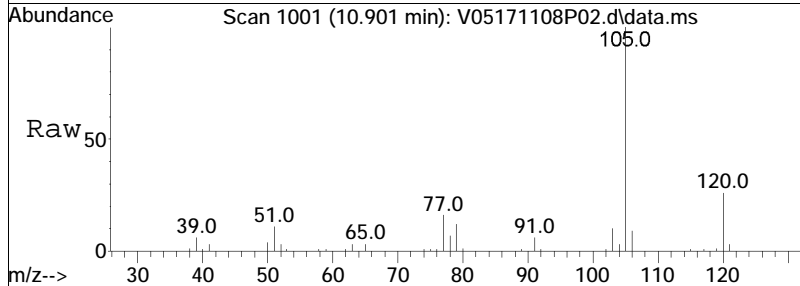
Tgt Ion	Resp	Lower	Upper
173	54954		
173	100		
175	47.8	27.7	67.7

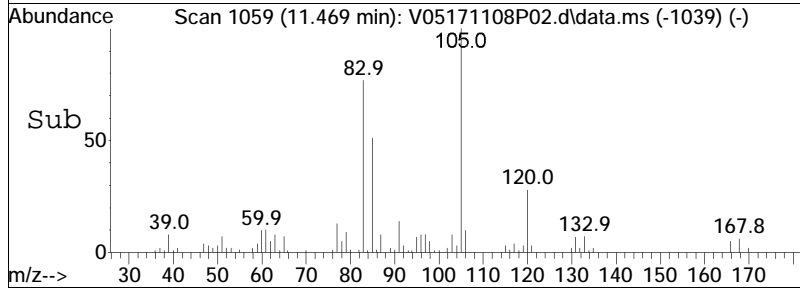
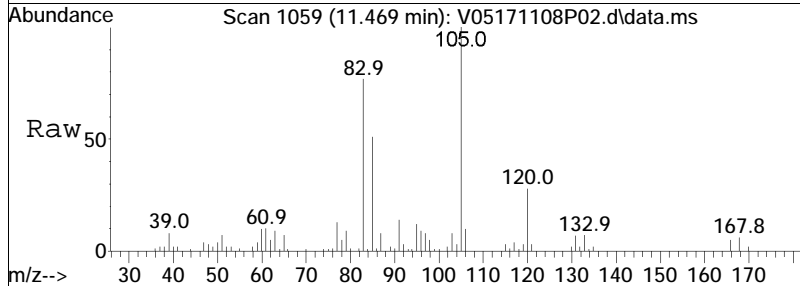
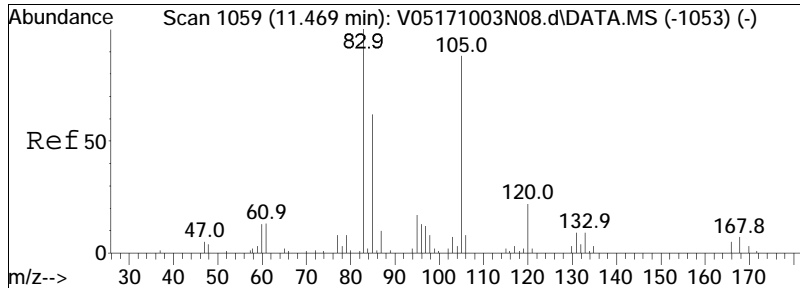




#82
 Isopropylbenzene
 Concen: 12.00 ug/L
 RT: 10.901 min Scan# 1001
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

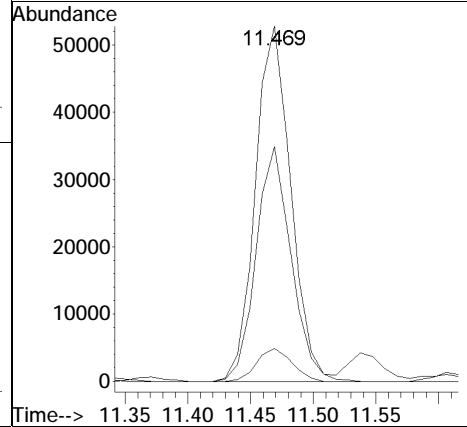
Tgt Ion: 105 Resp: 871911
 Ion Ratio Lower Upper
 105 100
 120 25.6 5.8 45.8

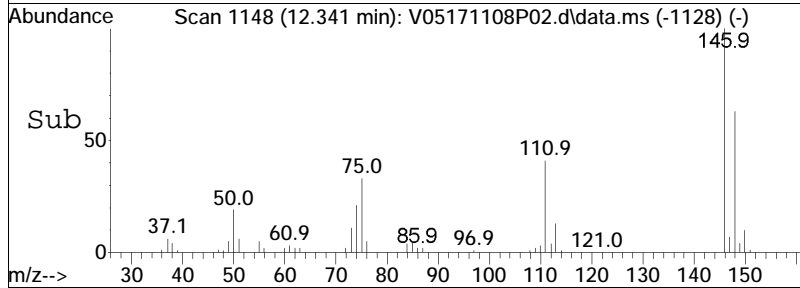
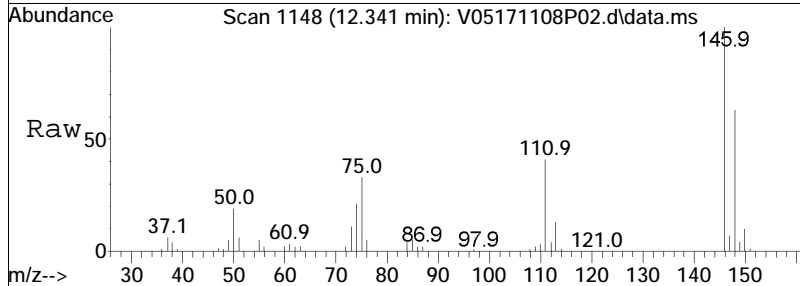
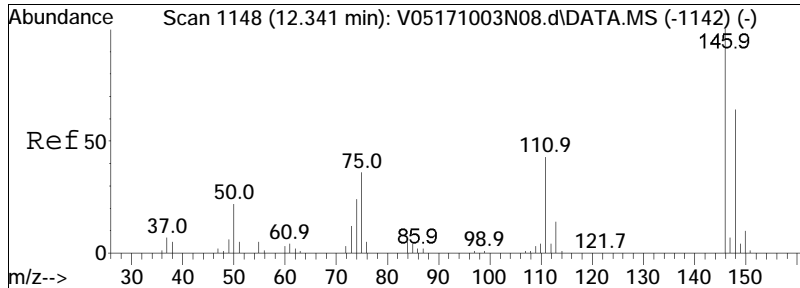




#87
 1,1,2,2-Tetrachloroethane
 Concen: 12.93 ug/L
 RT: 11.469 min Scan# 1059
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

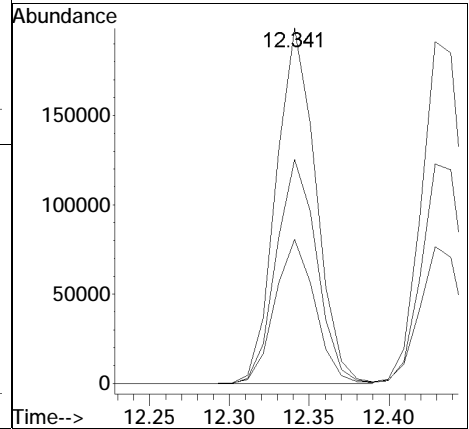
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
83	100		
131	9.3	0.0	29.3
85	65.7	44.5	84.5

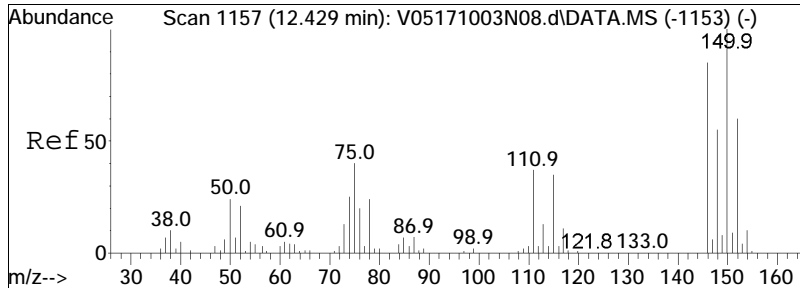




#100
 1,3-Dichlorobenzene
 Concen: 10.74 ug/L
 RT: 12.341 min Scan# 1148
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

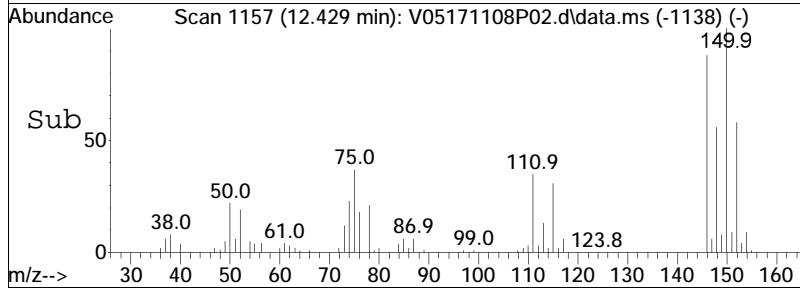
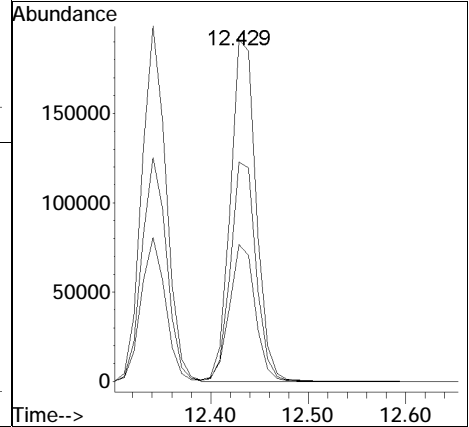
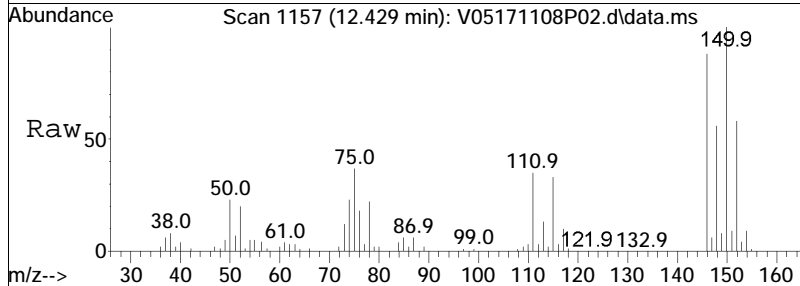
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.6	27.6	57.4
148	63.8	41.3	85.9

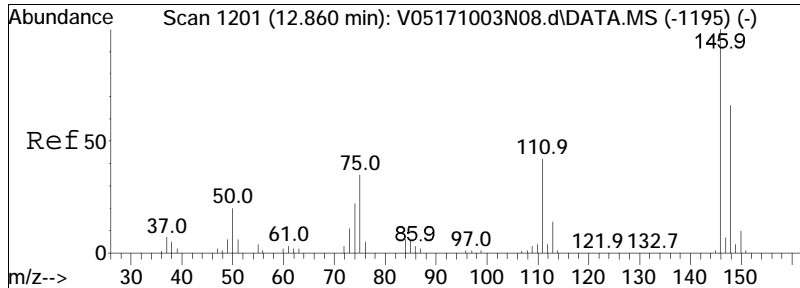




#101
 1,4-Dichlorobenzene
 Concen: 10.43 ug/L
 RT: 12.429 min Scan# 1157
 Delta R.T. -0.010 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

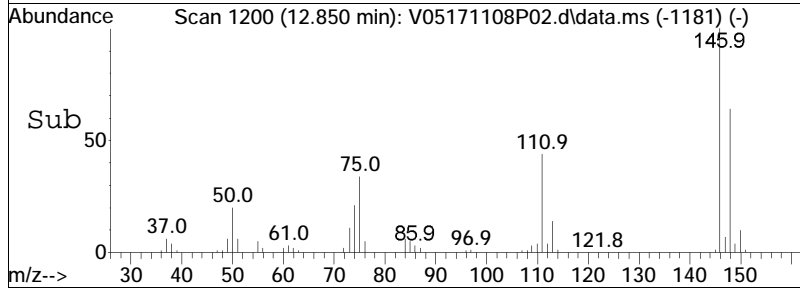
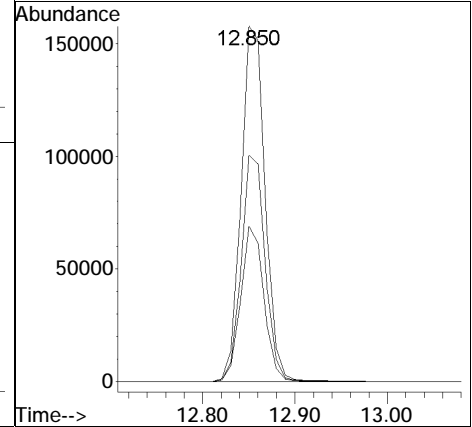
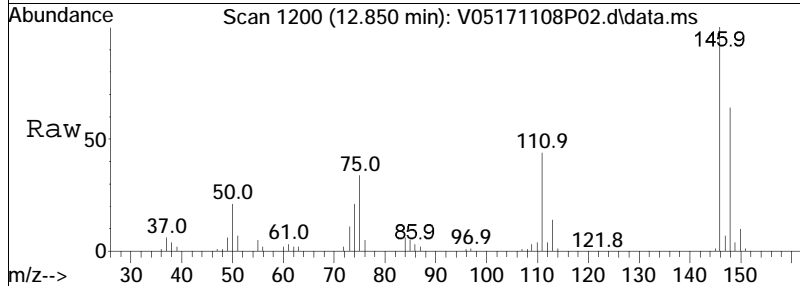
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.1	33.6	50.4
148	63.8	51.3	76.9

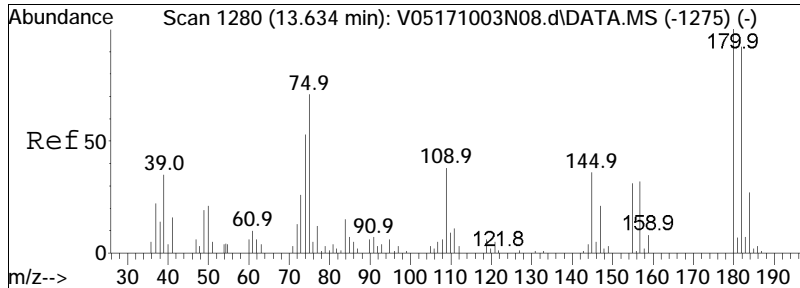




#104
 1,2-Dichlorobenzene
 Concen: 10.73 ug/L
 RT: 12.850 min Scan# 1200
 Delta R.T. -0.010 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

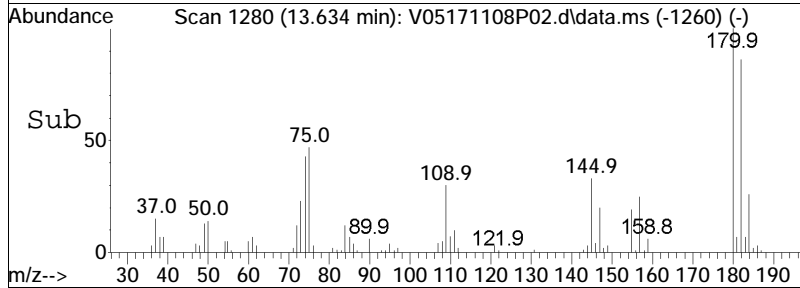
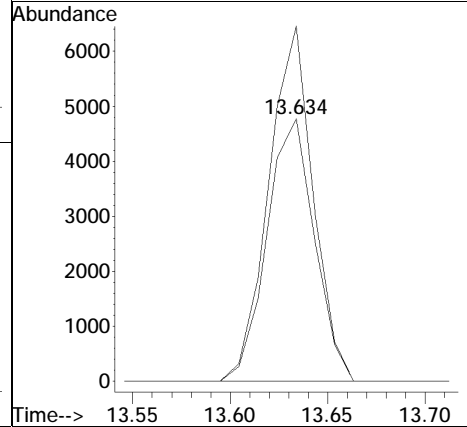
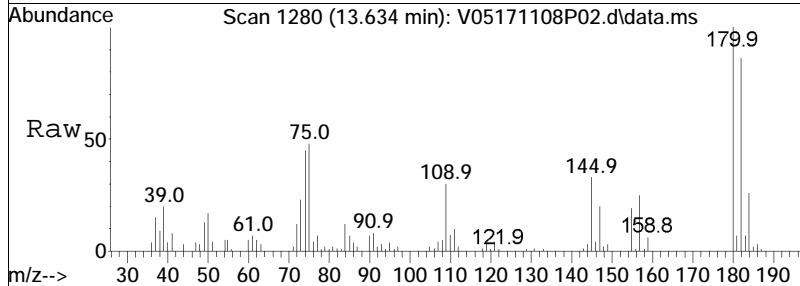
Tgt Ion	Resp	Lower	Upper
146	100		
111	42.3	28.3	58.9
148	63.2	41.9	87.1

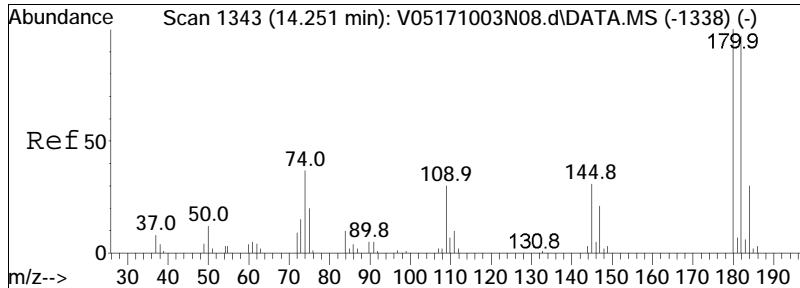




#106
 1,2-Dibromo-3-chloropropane
 Concen: 7.89 ug/L
 RT: 13.634 min Scan# 1280
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

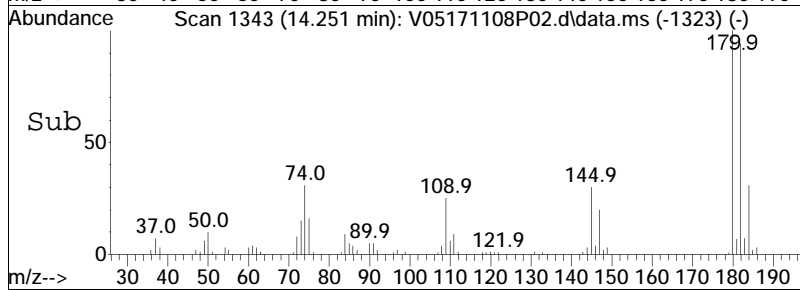
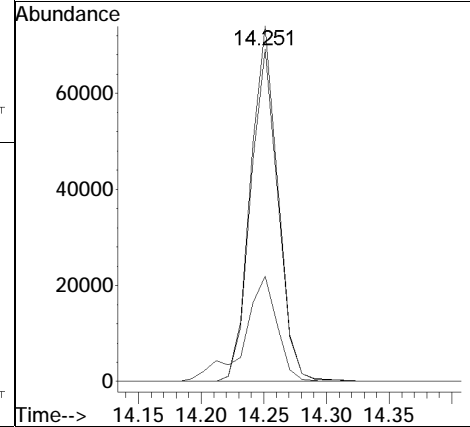
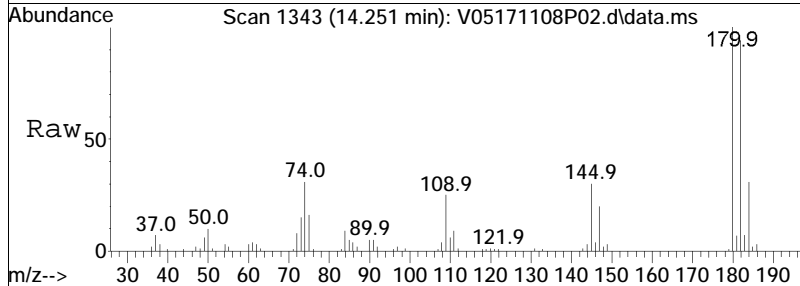
Tgt Ion	Resp	Lower	Upper
155	100		
157	126.0	96.6	145.0

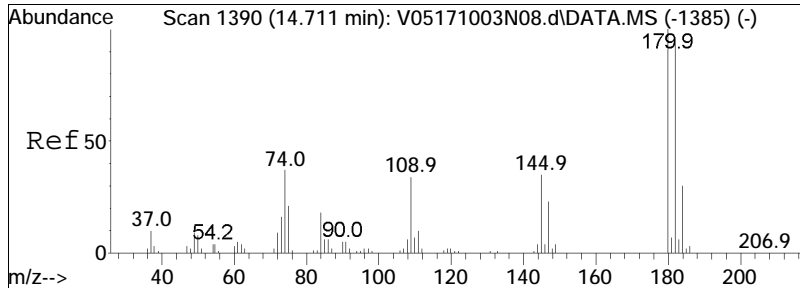




#109
 1,2,4-Trichlorobenzene
 Concen: 10.00 ug/L
 RT: 14.251 min Scan# 1343
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

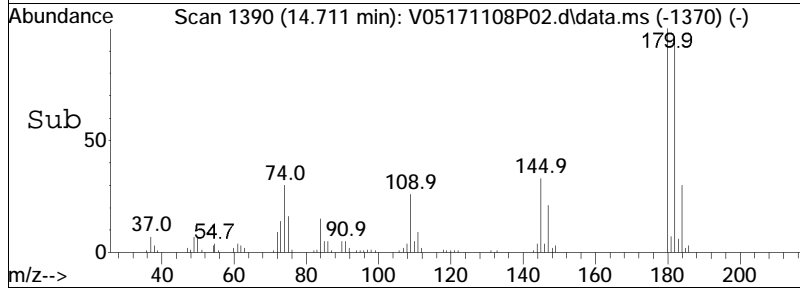
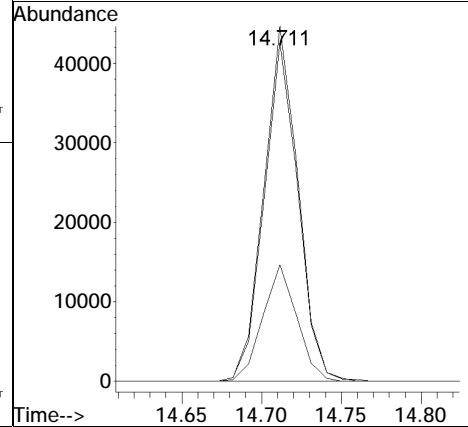
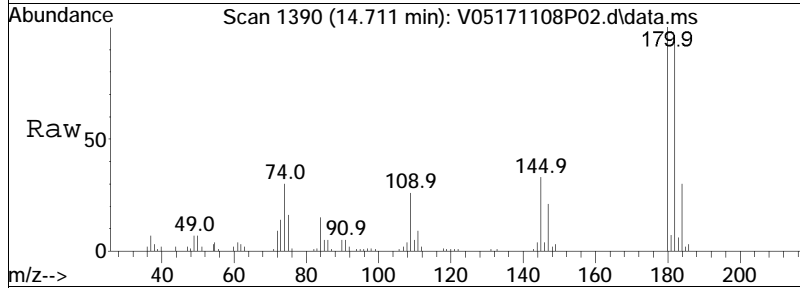
Tgt Ion	Resp	Lower	Upper
180	112525		
180	100		
182	93.5	76.3	114.5
145	35.7	31.0	46.4





#111
 1,2,3-Trichlorobenzene
 Concen: 10.23 ug/L
 RT: 14.711 min Scan# 1390
 Delta R.T. -0.000 min
 Lab File: V05171108P02.d
 Acq: 8 Nov 2017 9:18 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.2	114.2
145	32.9	28.2	42.2



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A03.d
 Acq On : 9 Nov 2017 8:34
 Operator : VOA105:PD
 Sample : WG1061312-11,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 09 09:22:07 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171109A\V05171109A02.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.212	96	921639	10.000	ug/L	0.00	
Standard Area 1 = 914886			Recovery =	100.74%			
59) Chlorobenzene-d5	9.765	117	660031	10.000	ug/L	0.00	
Standard Area 1 = 656090			Recovery =	100.60%			
79) 1,4-Dichlorobenzene-d4	12.419	152	324945	10.000	ug/L	0.00	
Standard Area 1 = 321389			Recovery =	101.11%			
System Monitoring Compounds							
36) Dibromofluoromethane	5.401	113	227360	8.664	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	86.64%			
43) 1,2-Dichloroethane-d4	5.939	65	266354	9.221	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	92.21%			
60) Toluene-d8	7.904	98	865484	10.229	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.29%			
83) 4-Bromofluorobenzene	11.224	95	319804	11.719	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	117.19%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.743	85	161332	11.124	ug/L		99
3) Chloromethane	1.938	50	181723	13.940	ug/L		98
4) Vinyl chloride	2.026	62	175919	14.562	ug/L		81
5) Bromomethane	2.349	94	55283M1	8.572	ug/L		
6) Chloroethane	2.476	64	86408M1	12.255	ug/L		
7) Trichlorofluoromethane	2.613	101	235977	8.757	ug/L		98
10) 1,1-Dichloroethene	3.122	96	138010	10.687	ug/L		96
11) Carbon disulfide	3.151	76	398738	11.703	ug/L		99
12) Freon-113	3.151	101	146771	10.135	ug/L		97
15) Methylene chloride	3.689	84	158680	10.757	ug/L		98
17) Acetone	3.738	43	22807	9.997	ug/L		91
18) trans-1,2-Dichloroethene	3.845	96	157710	10.318	ug/L		99
19) Methyl acetate	3.855	43	56101	12.107	ug/L		97
20) Methyl tert-butyl ether	3.934	73	266726	10.830	ug/L		95
23) 1,1-Dichloroethane	4.442	63	311692	11.259	ug/L		98
28) cis-1,2-Dichloroethene	4.960	96	171123	10.314	ug/L		97
30) Bromochloromethane	5.156	128	68083	9.018	ug/L		97
31) Cyclohexane	5.146	56	299054	12.416	ug/L		98
32) Chloroform	5.225	83	283765	9.332	ug/L		98
34) Carbon tetrachloride	5.352	117	215084	8.135	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A03.d
 Acq On : 9 Nov 2017 8:34
 Operator : VOA105:PD
 Sample : WG1061312-11,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 09 09:22:07 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171109A\V05171109A02.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	5.420	97	254457	8.663	ug/L	99
39) 2-Butanone	5.528	43	31923	11.824	ug/L	97
41) Benzene	5.792	78	634715	10.774	ug/L	99
44) 1,2-Dichloroethane	6.007	62	188064	9.372	ug/L	99
47) Methylcyclohexane	6.369	83	230113	10.825	ug/L	98
48) Trichloroethene	6.388	95	169798	9.197	ug/L	98
51) 1,2-Dichloropropane	6.946	63	161244	11.959	ug/L	94
54) Bromodichloromethane	7.014	83	195482	9.150	ug/L	100
57) 1,4-Dioxane	7.230	88	29374	536.420	ug/L	96
58) cis-1,3-Dichloropropene	7.709	75	207485	8.857	ug/L	94
61) Toluene	7.963	92	411791	10.955	ug/L	98
62) 4-Methyl-2-pentanone	8.413	58	22714	12.071	ug/L	90
63) Tetrachloroethene	8.413	166	177098	8.524	ug/L	93
65) trans-1,3-Dichloropropene	8.462	75	164410	9.192	ug/L	95
68) 1,1,2-Trichloroethane	8.648	83	94671	11.434	ug/L	99
69) Chlorodibromomethane	8.853	129	107912	8.993	ug/L	98
71) 1,2-Dibromoethane	9.138	107	87988	10.364	ug/L	100
72) 2-Hexanone	9.422	43	37396	9.968	ug/L	92
73) Chlorobenzene	9.784	112	441955	10.262	ug/L	95
74) Ethylbenzene	9.813	91	799302	11.088	ug/L	100
76) p/m Xylene	10.000	106	597762	21.922	ug/L	98
77) o Xylene	10.529	106	552335	20.990	ug/L	98
78) Styrene	10.597	104	893938	21.072	ug/L	95
80) Bromoform	10.636	173	53563	9.118	ug/L	99
82) Isopropylbenzene	10.901	105	736731	11.072	ug/L	99
87) 1,1,2,2-Tetrachloroethane	11.469	83	97597	13.269	ug/L	99
100) 1,3-Dichlorobenzene	12.341	146	310702	10.527	ug/L	99
101) 1,4-Dichlorobenzene	12.429	146	317555	10.262	ug/L	98
104) 1,2-Dichlorobenzene	12.850	146	260208	10.706	ug/L	98
106) 1,2-Dibromo-3-chloropr...	13.634	155	8004	8.439	ug/L	92
109) 1,2,4-Trichlorobenzene	14.251	180	104378	10.107	ug/L	98
111) 1,2,3-Trichlorobenzene	14.711	180	64899	10.856	ug/L	99

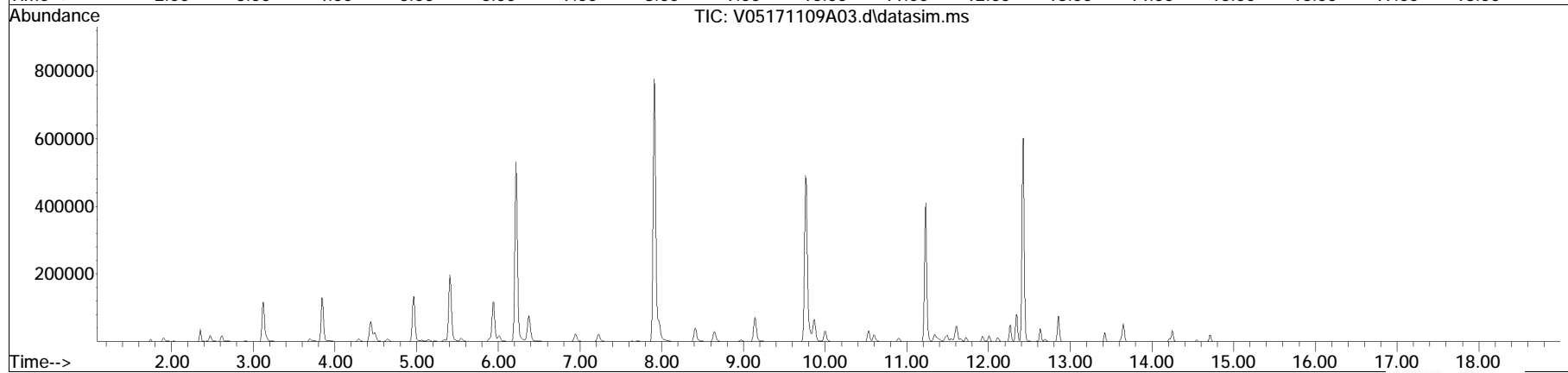
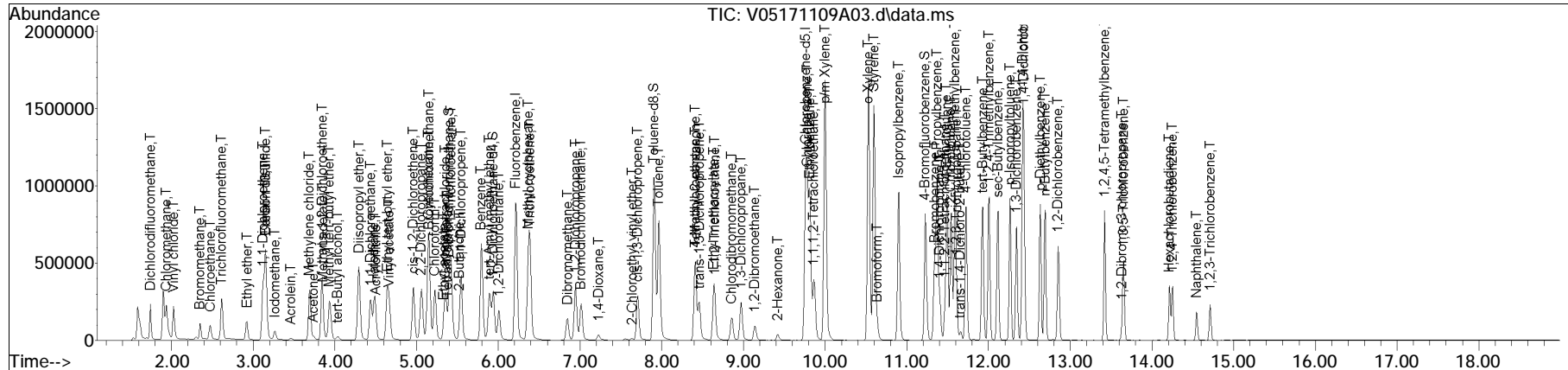
(#) = qualifier out of range (m) = manual integration (+) = signals summed

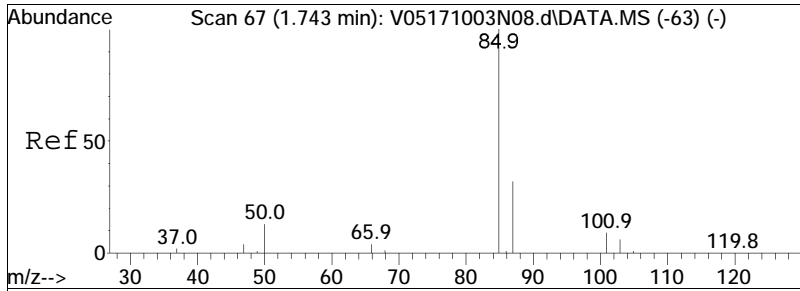
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171109A\
 Data File : V05171109A03.d
 Acq On : 9 Nov 2017 8:34
 Operator : VOA105:PD
 Sample : WG1061312-11,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 09 09:22:07 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171109A\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

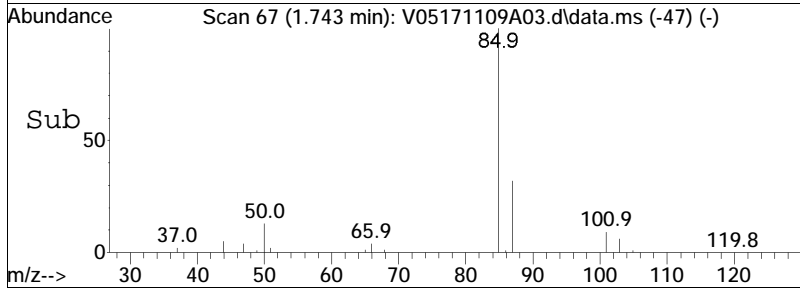
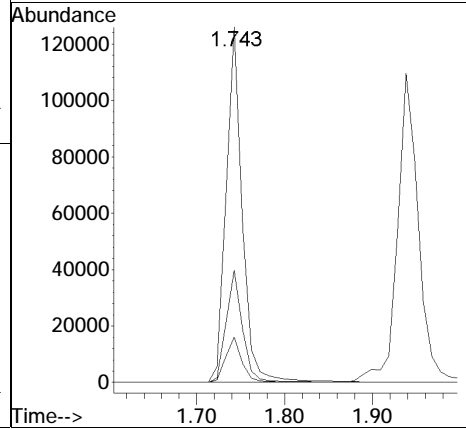
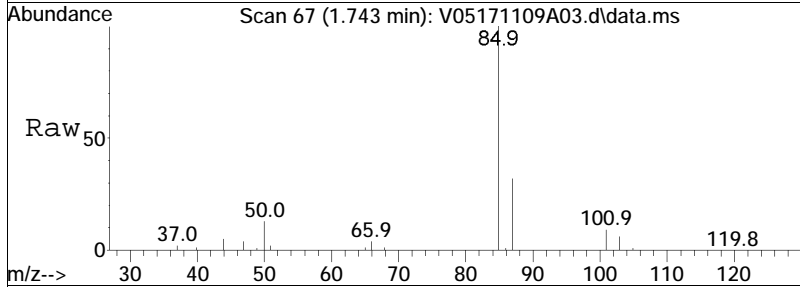
Sub List : 8260-Curve - Megamix plus Diox71109A\V05171109A02.d•

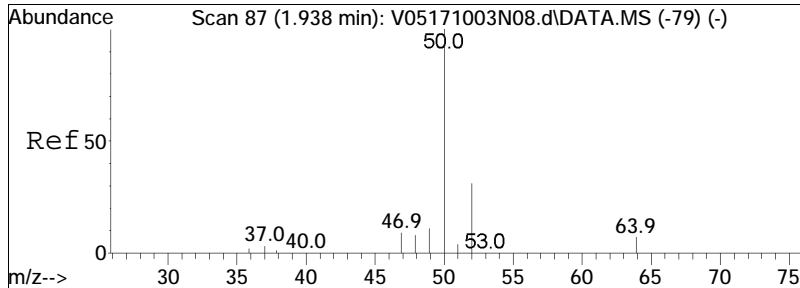




#2
 Dichlorodifluoromethane
 Concen: 11.12 ug/L
 RT: 1.743 min Scan# 67
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

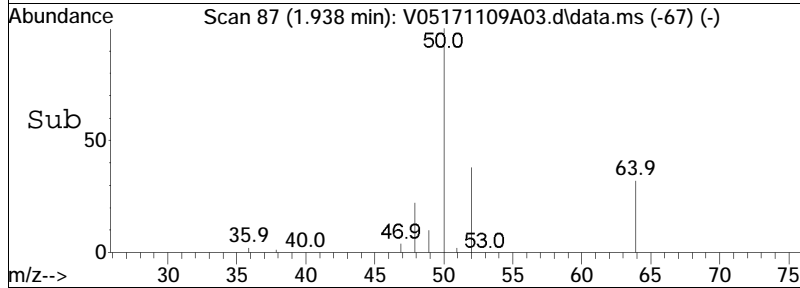
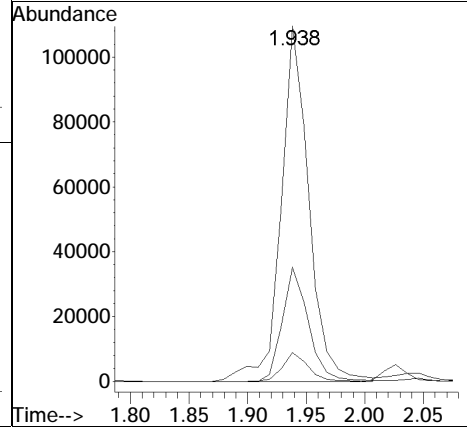
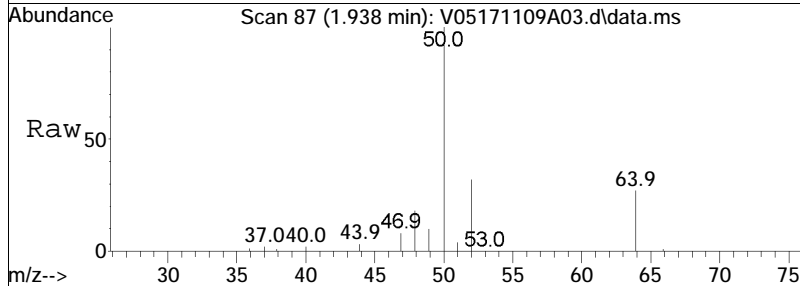
Tgt Ion	Resp	Lower	Upper
85	161332		
85	100		
87	32.0	21.3	44.1
50	12.8	8.7	18.1

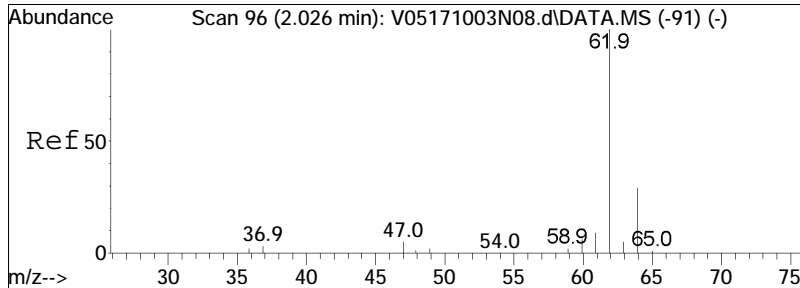




#3
 Chloromethane
 Concen: 13.94 ug/L
 RT: 1.938 min Scan# 87
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

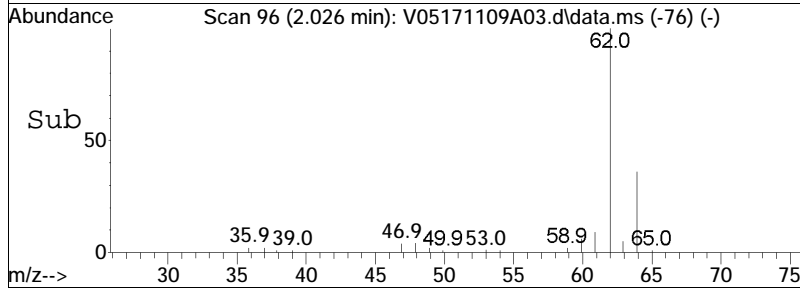
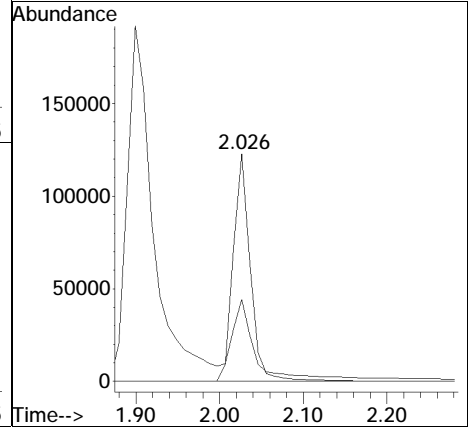
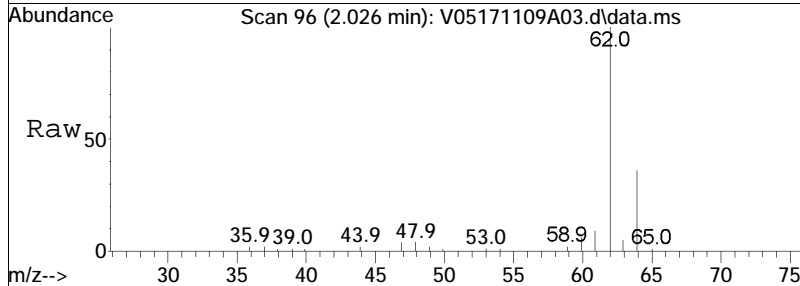
Tgt Ion	Resp	Lower	Upper
50	181723		
52	30.1	11.4	51.4
47	7.4	0.0	28.0

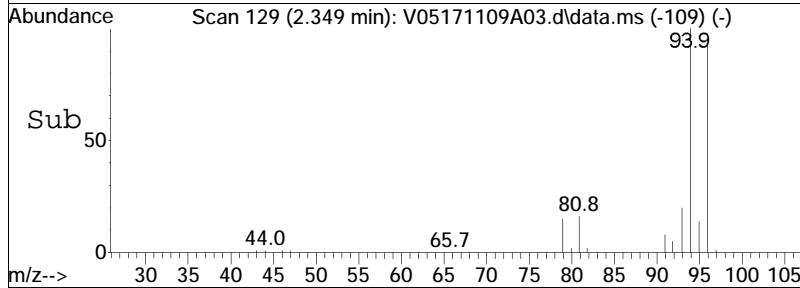
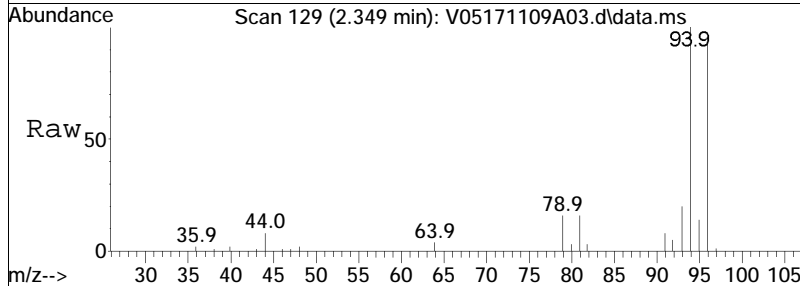
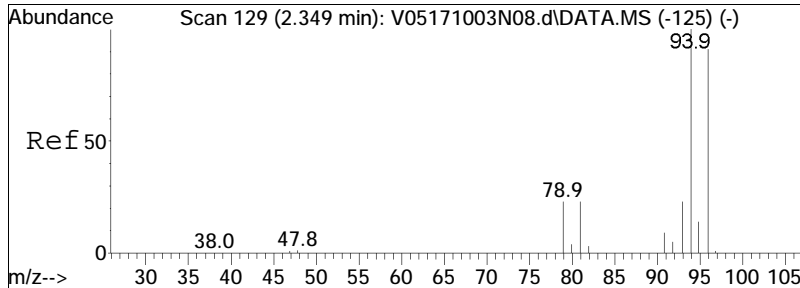




#4
 Vinyl chloride
 Concen: 14.56 ug/L
 RT: 2.026 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

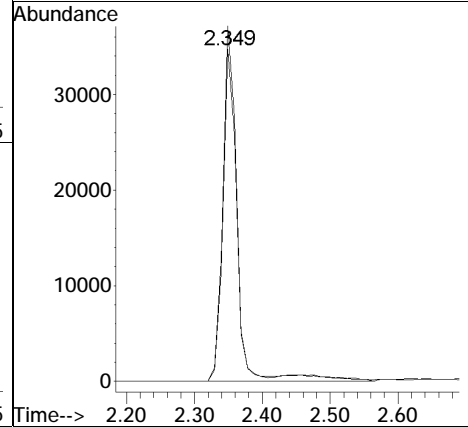
Tgt Ion:	Resp:	Lower	Upper
62	175919		
62	100		
64	44.5	13.8	53.8

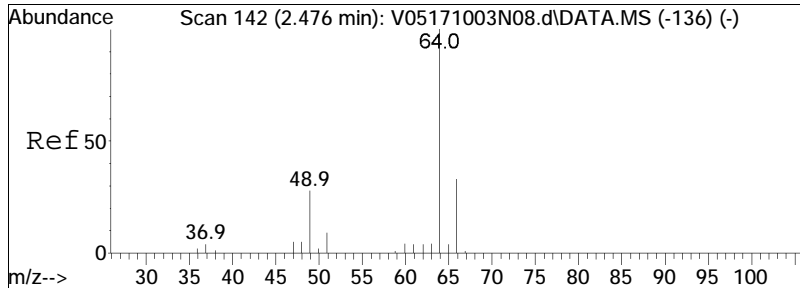




#5
 Bromomethane
 Concen: 8.57 ug/L M1
 RT: 2.349 min Scan# 129
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

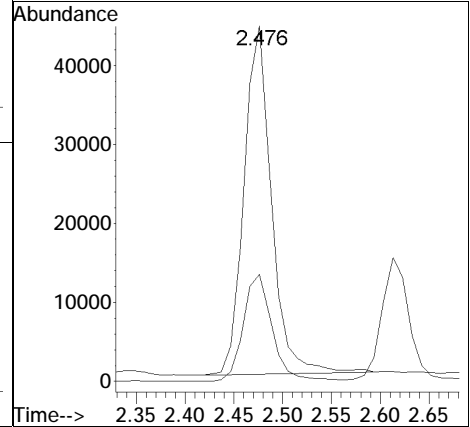
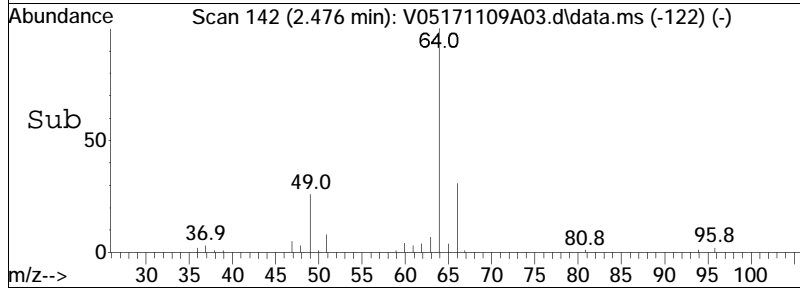
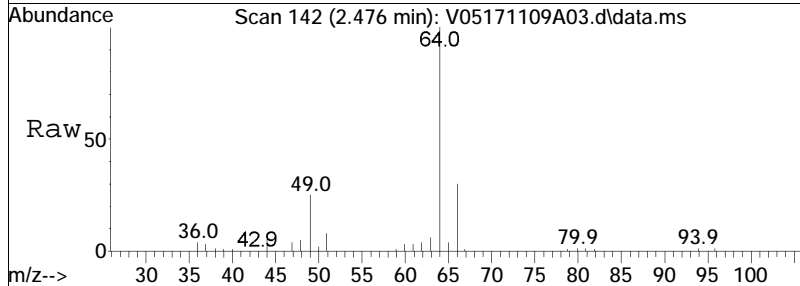
Tgt Ion: 94 Resp: 55283
 Ion Ratio Lower Upper
 94 100
 96 86.2 73.1 113.1

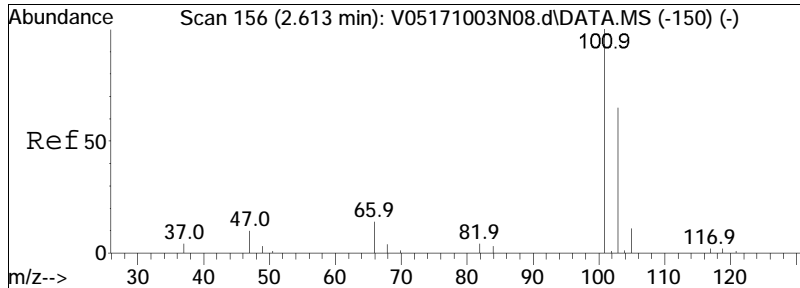




#6
 Chloroethane
 Concen: 12.26 ug/L M1
 RT: 2.476 min Scan# 142
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

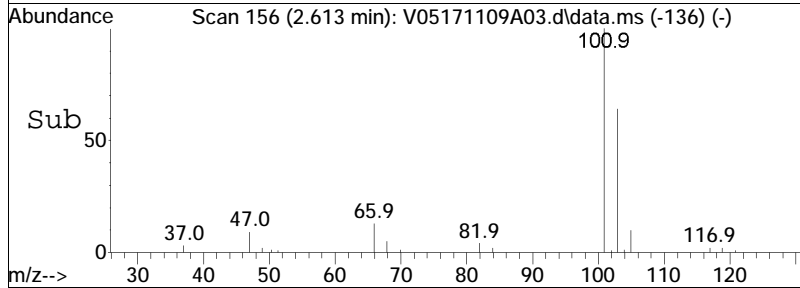
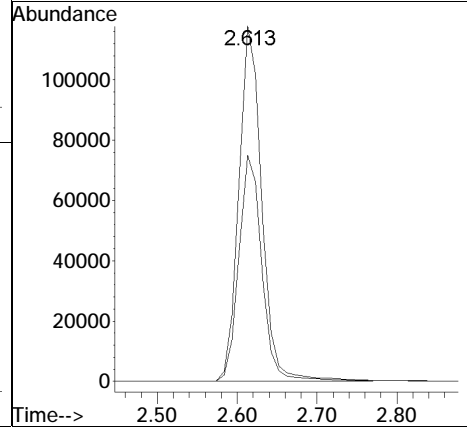
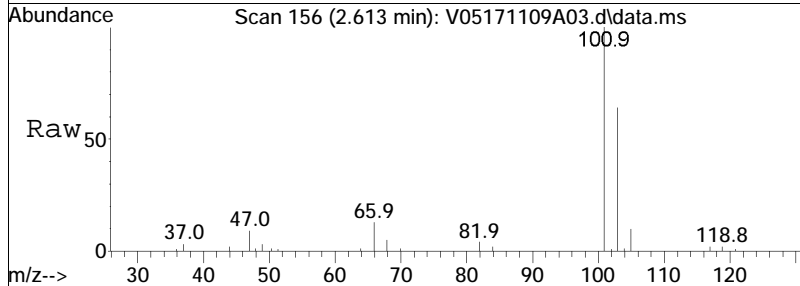
Tgt Ion: 64 Resp: 86408
 Ion Ratio Lower Upper
 64 100
 66 32.5 13.7 53.7

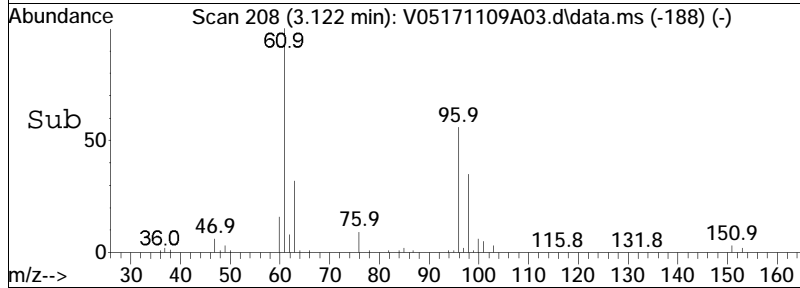
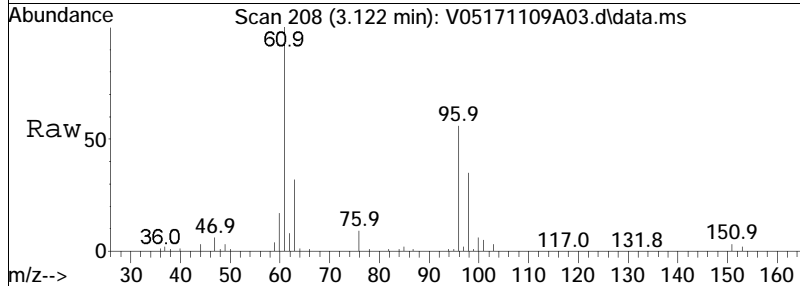
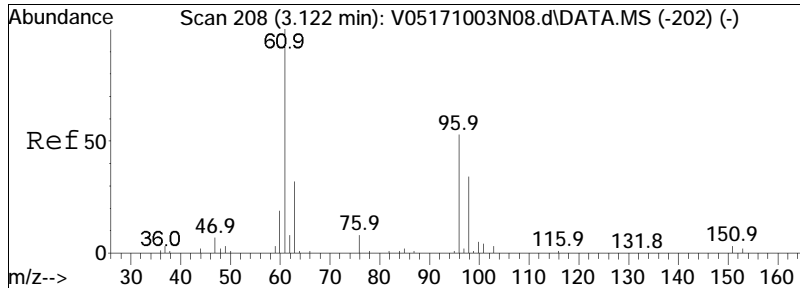




#7
 Trichlorofluoromethane
 Concen: 8.76 ug/L
 RT: 2.613 min Scan# 156
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

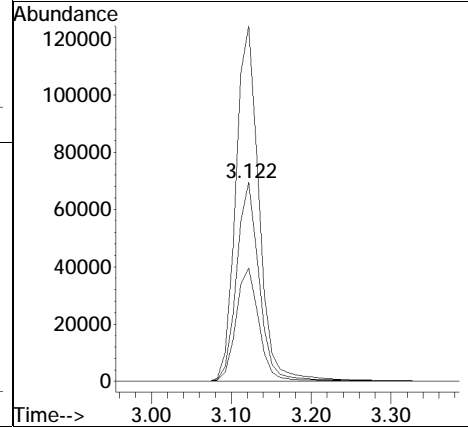
Tgt Ion	Resp	Lower	Upper
101	235977		
101	100		
103	64.1	52.6	79.0

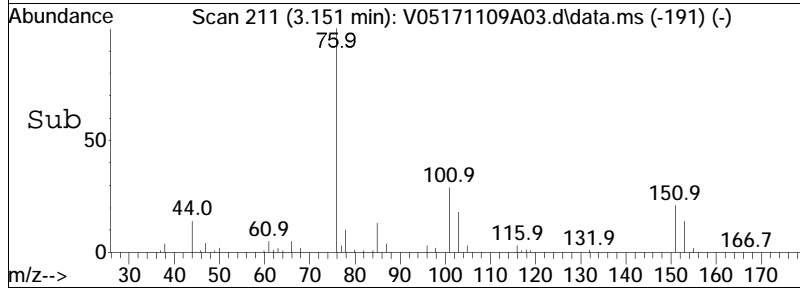
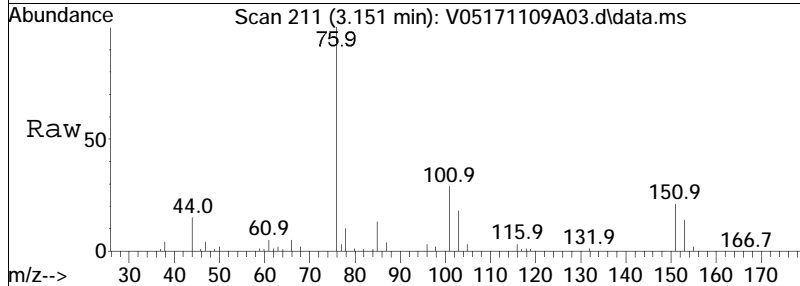
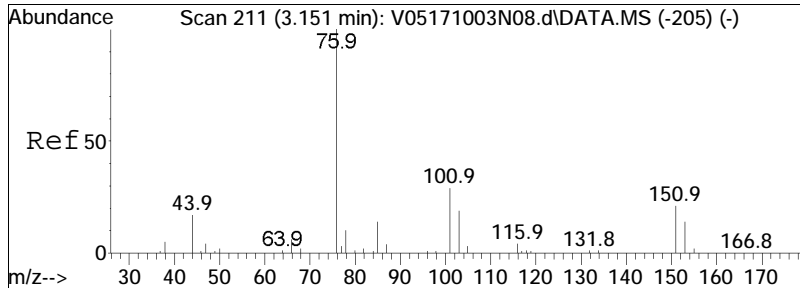




#10
 1,1-Dichloroethene
 Concen: 10.69 ug/L
 RT: 3.122 min Scan# 208
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

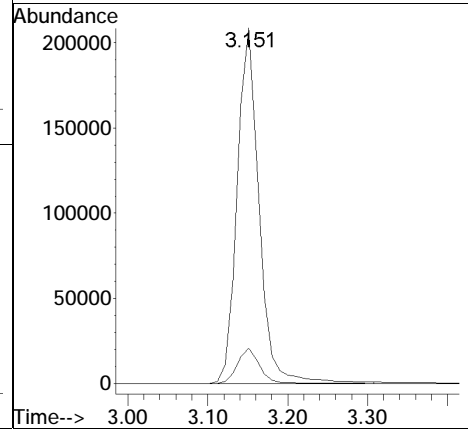
Tgt Ion:	96	Resp:	138010
Ion Ratio	Lower	Upper	
96	100		
61	182.7	151.0	226.4
63	58.2	47.7	71.5

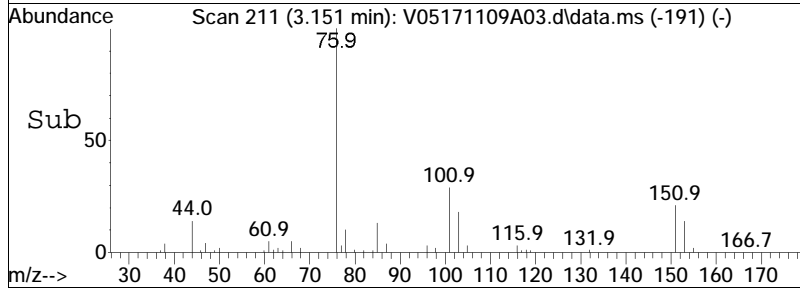
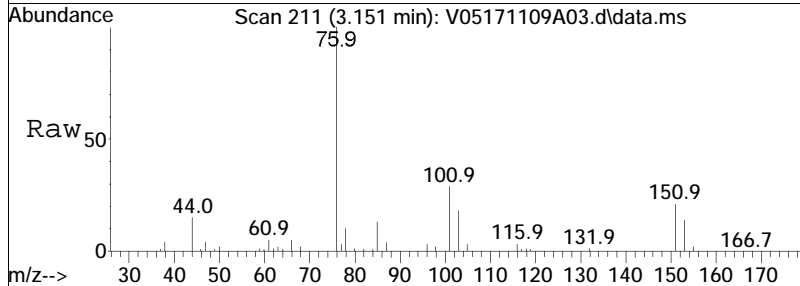
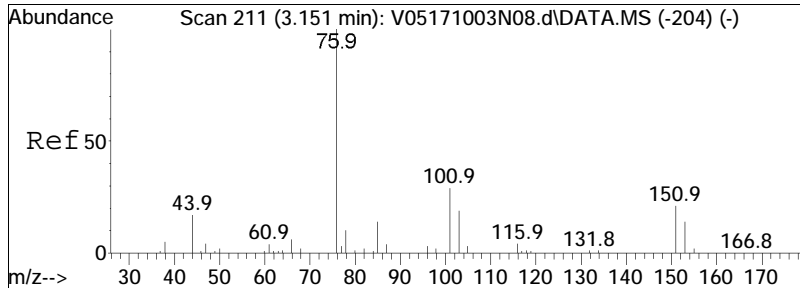




#11
 Carbon disulfide
 Concen: 11.70 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

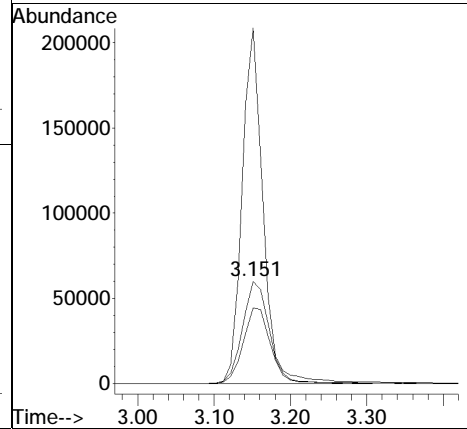
Tgt Ion: 76 Resp: 398738
 Ion Ratio Lower Upper
 76 100
 78 10.1 6.7 13.9

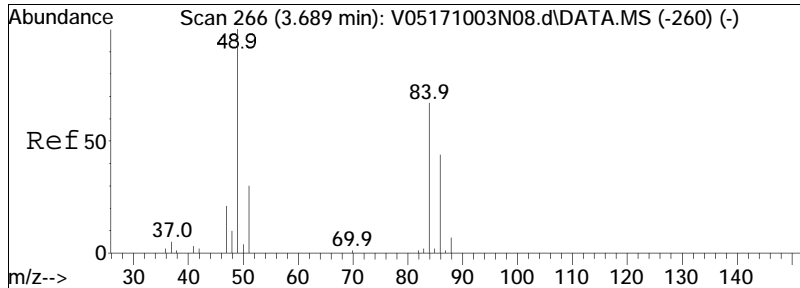




#12
 Freon-113
 Concen: 10.14 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

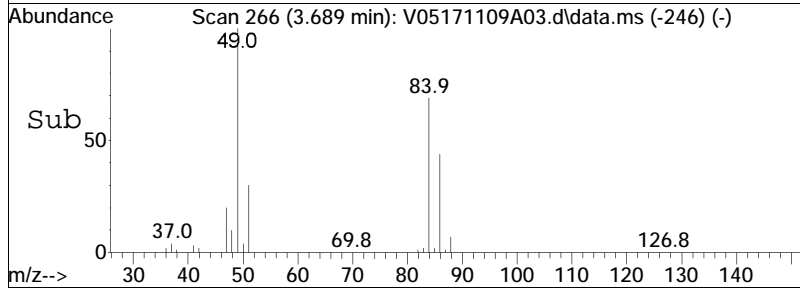
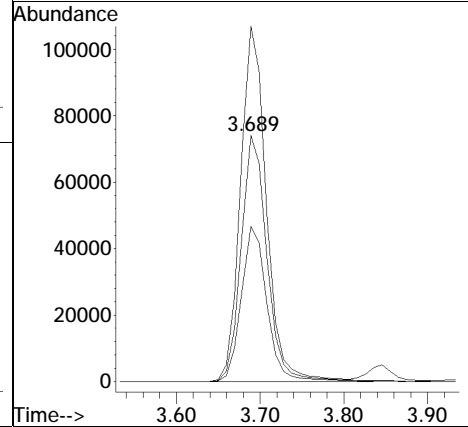
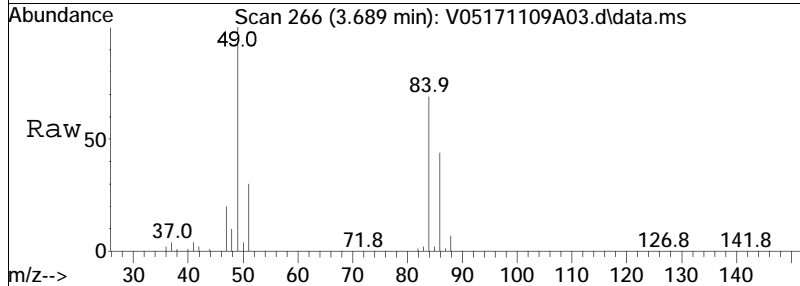
Tgt Ion	Resp	Lower	Upper
101	146771		
101	100		
151	75.4	59.2	88.8
76	271.7	213.0	319.4

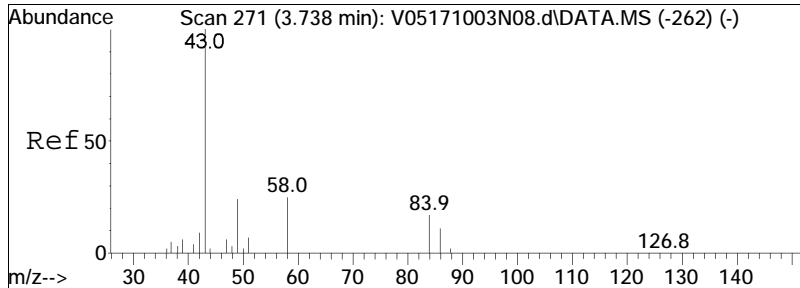




#15
 Methylene chloride
 Concen: 10.76 ug/L
 RT: 3.689 min Scan# 266
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

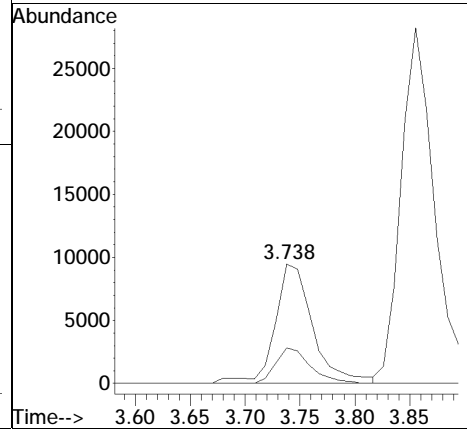
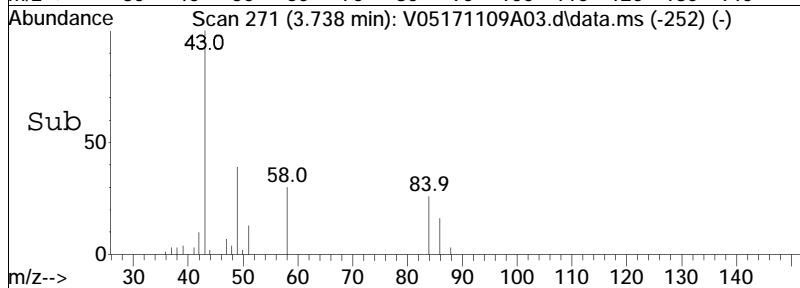
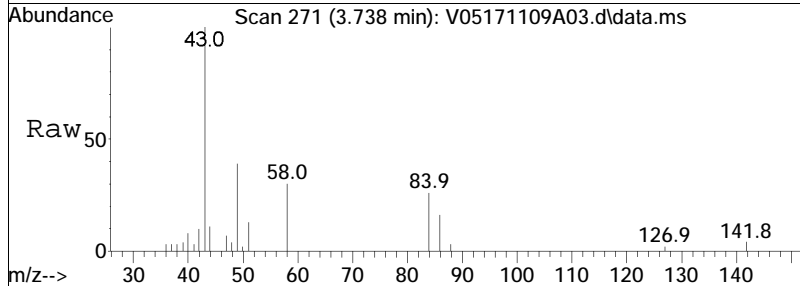
Tgt Ion:	84	Resp:	158680
Ion Ratio	Lower	Upper	
84	100		
86	62.7	41.9	86.9
49	144.0	95.1	197.5

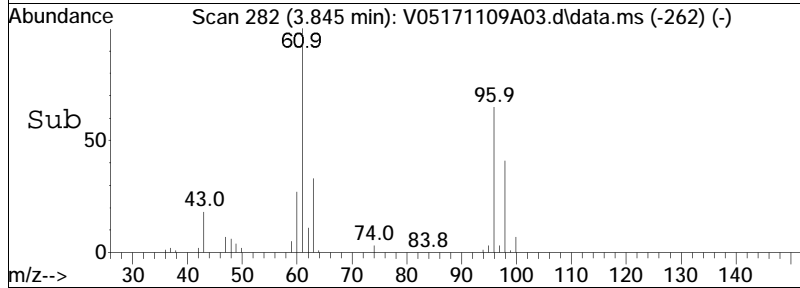
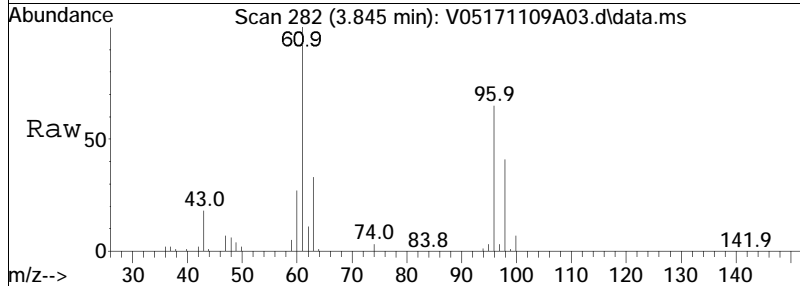
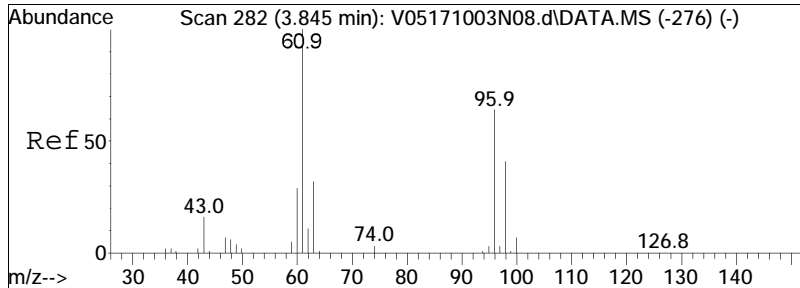




#17
 Acetone
 Concen: 10.00 ug/L
 RT: 3.738 min Scan# 271
 Delta R.T. -0.010 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

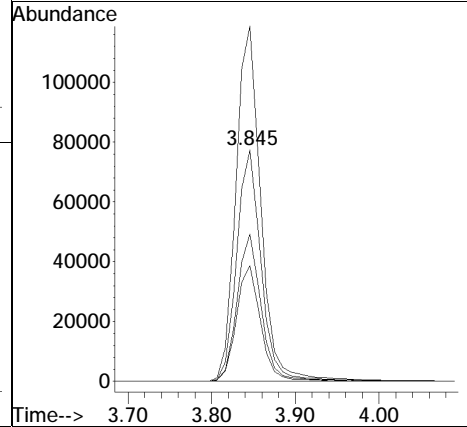
Tgt Ion:	43	58	Resp:	22807
Ion Ratio	100	27.2	Lower	Upper
			18.5	27.7

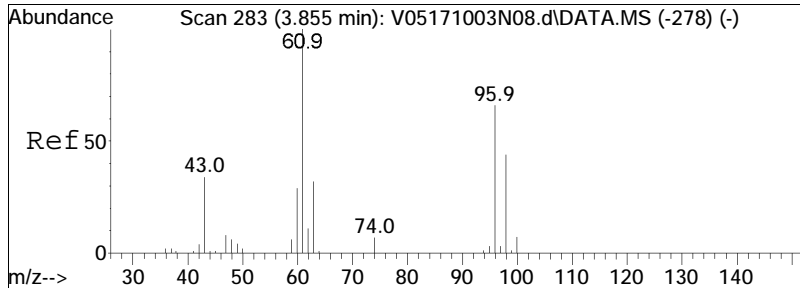




#18
 trans-1,2-Dichloroethene
 Concen: 10.32 ug/L
 RT: 3.845 min Scan# 282
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

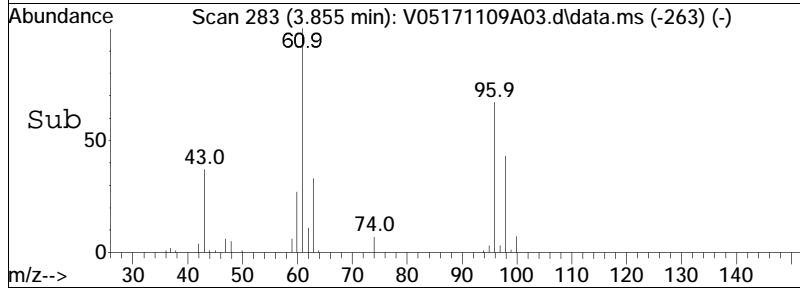
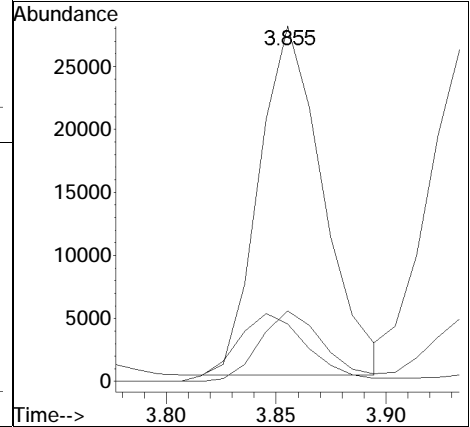
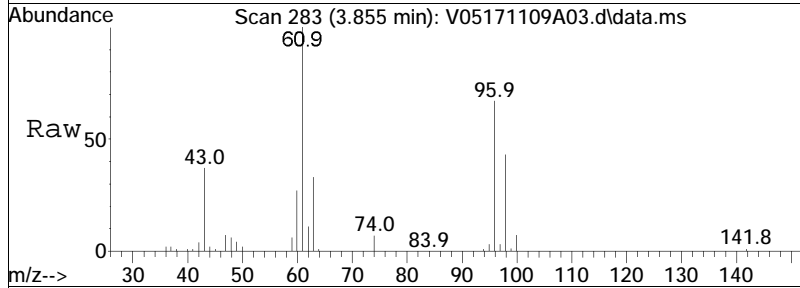
Tgt Ion	Resp	Lower	Upper
96	157710		
96	100		
61	156.4	102.0	211.8
98	63.3	41.9	87.1
63	50.1	32.6	67.8

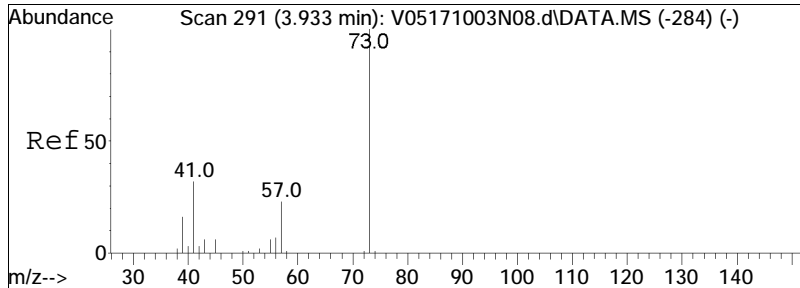




#19
 Methyl acetate
 Concen: 12.11 ug/L
 RT: 3.855 min Scan# 283
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

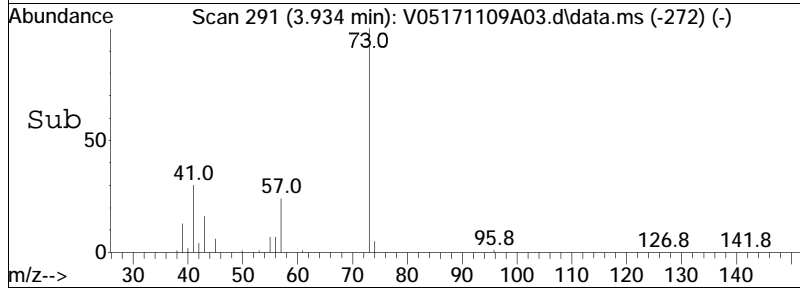
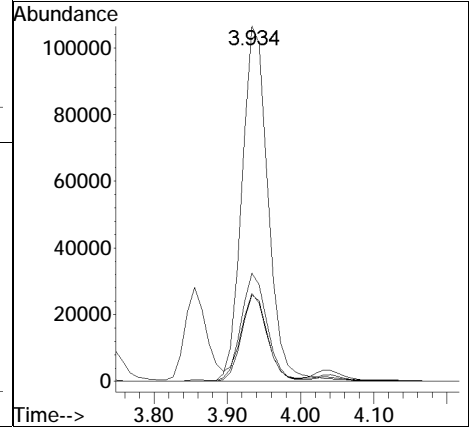
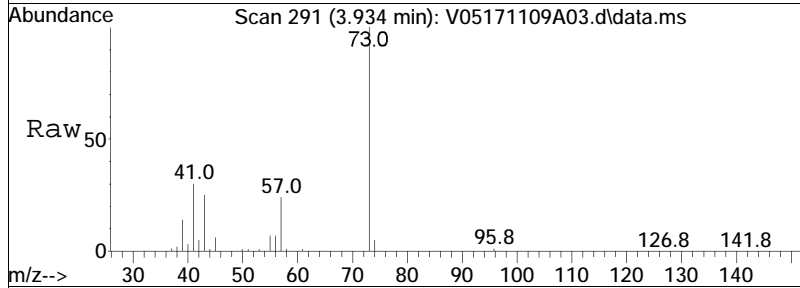
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
43	100		
74	20.4	15.3	22.9
59	21.9	18.6	28.0

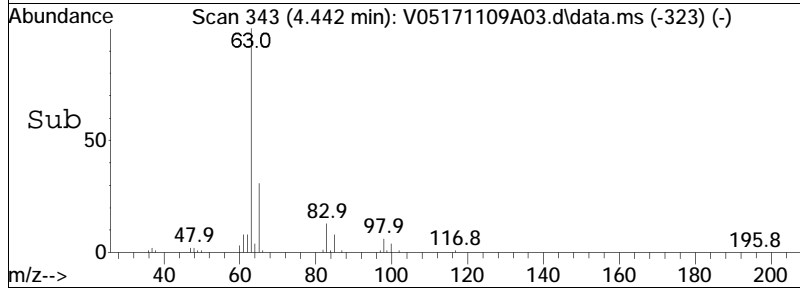
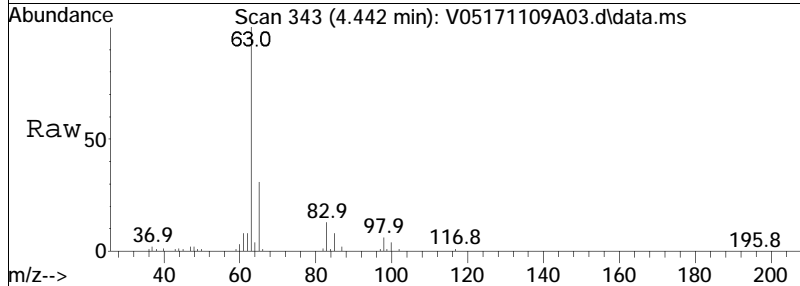
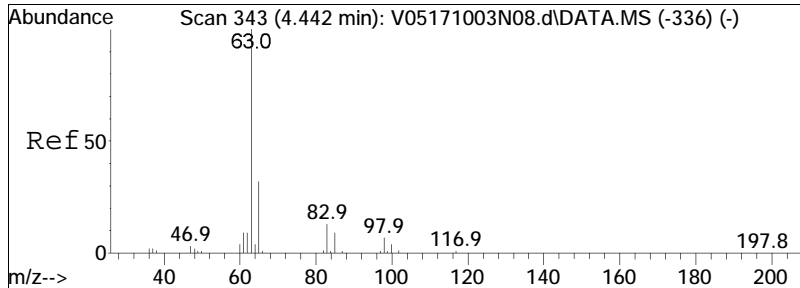




#20
 Methyl tert-butyl ether
 Concen: 10.83 ug/L
 RT: 3.934 min Scan# 291
 Delta R.T. -0.010 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

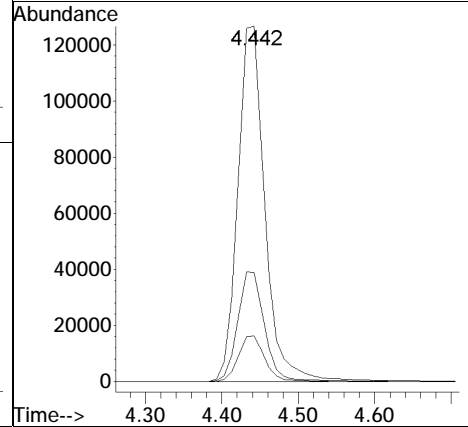
Tgt Ion	Resp	Lower	Upper
73	100		
57	24.0	14.3	29.7
43	23.7	16.8	35.0
41	29.4	20.9	43.3

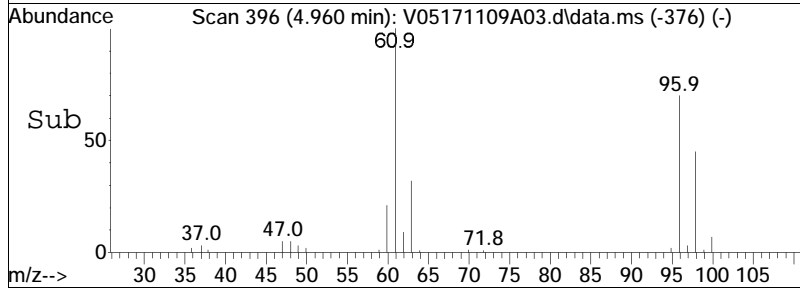
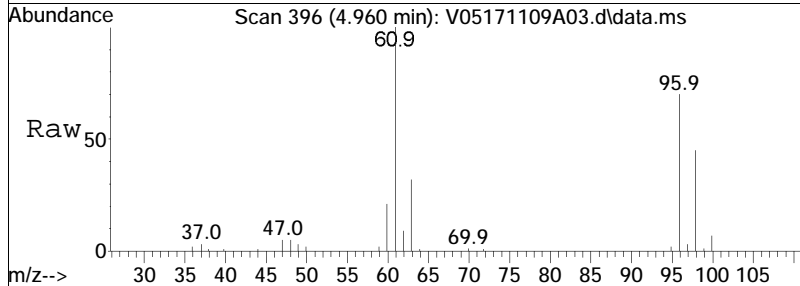
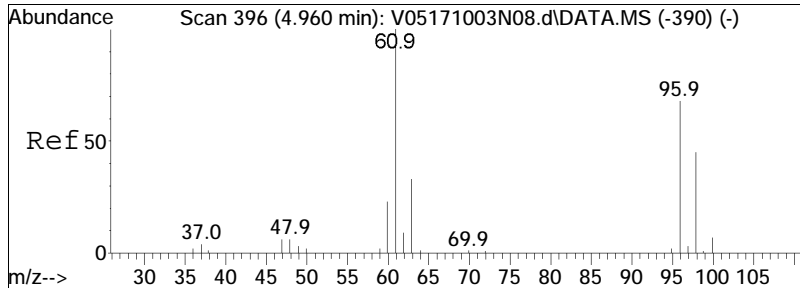




#23
 1,1-Dichloroethane
 Concen: 11.26 ug/L
 RT: 4.442 min Scan# 343
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

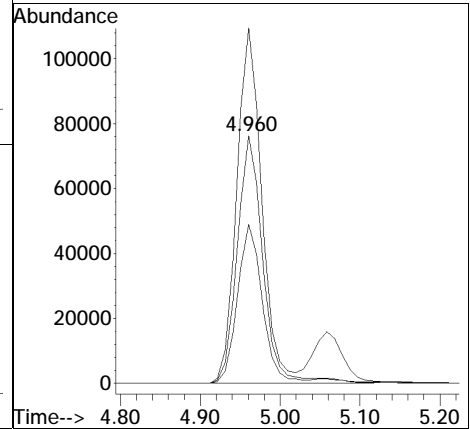
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
63	100		
65	30.5	11.6	51.6
83	12.4	0.0	33.0

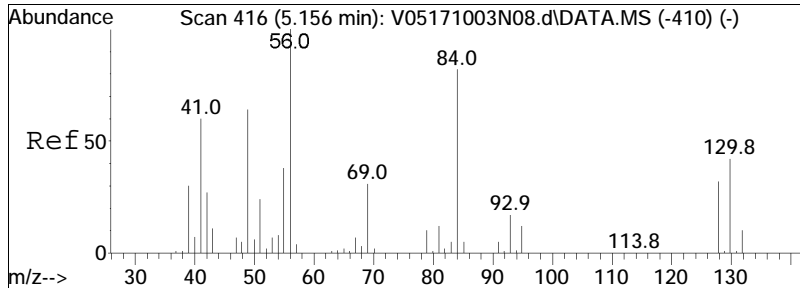




#28
 cis-1,2-Dichloroethene
 Concen: 10.31 ug/L
 RT: 4.960 min Scan# 396
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

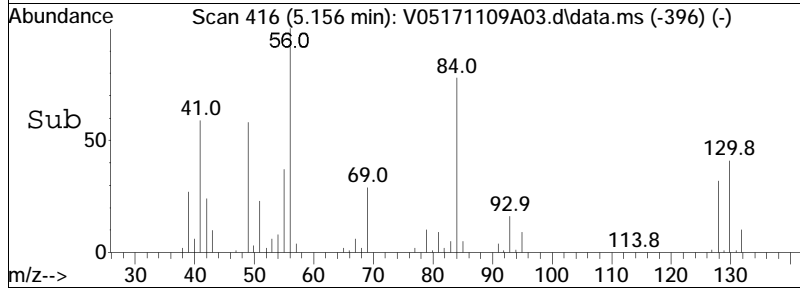
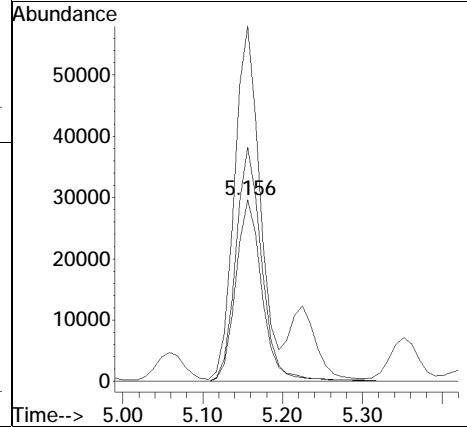
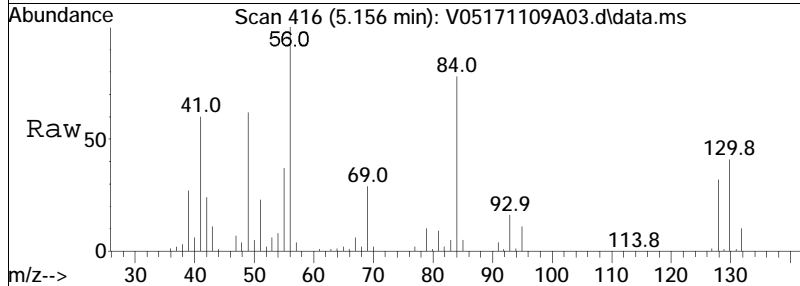
Tgt Ion:	96	Resp:	171123
Ion Ratio	Lower	Upper	
96	100		
61	138.5	113.7	170.5
98	61.9	51.2	76.8

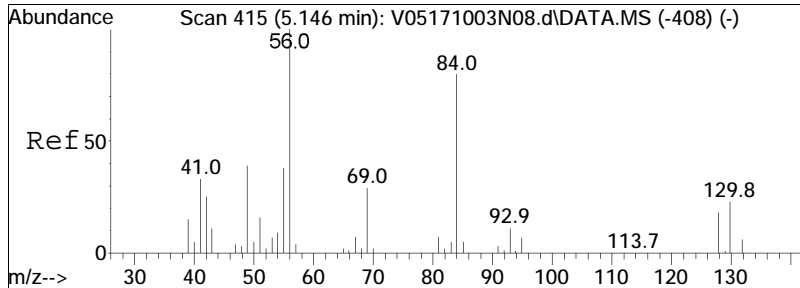




#30
 Bromochloromethane
 Concen: 9.02 ug/L
 RT: 5.156 min Scan# 416
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

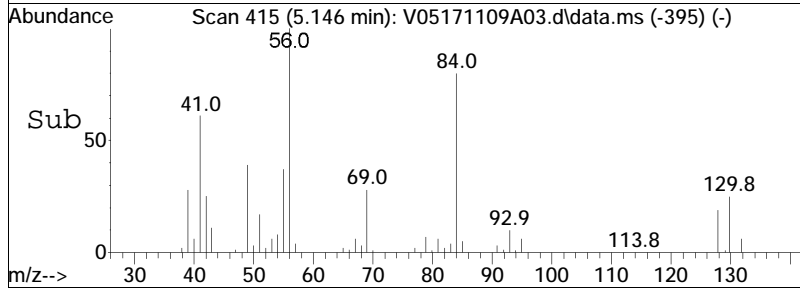
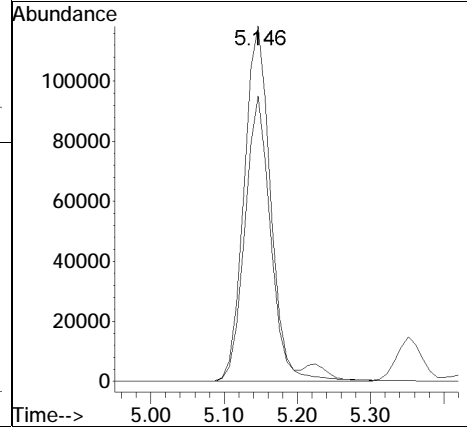
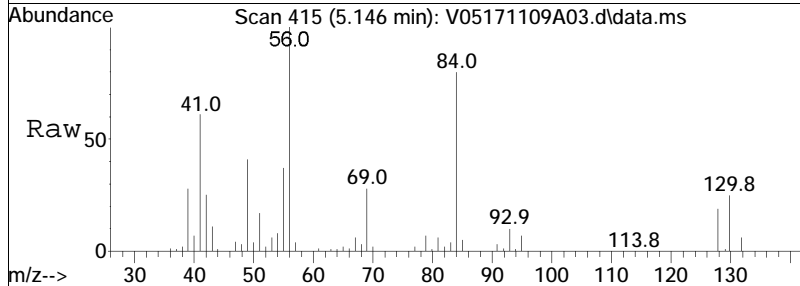
Tgt Ion	Resp	Lower	Upper
128	68083		
128	100		
49	187.0	155.4	233.0
130	127.2	101.9	152.9

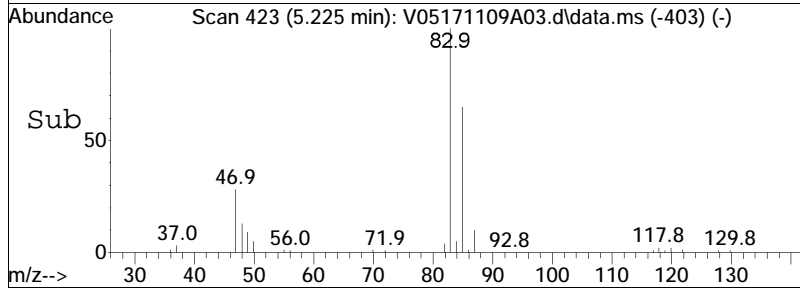
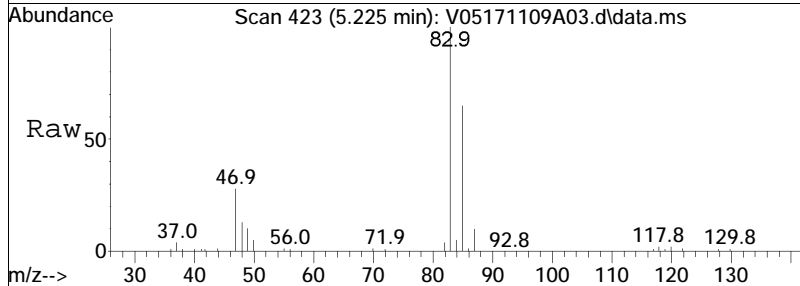
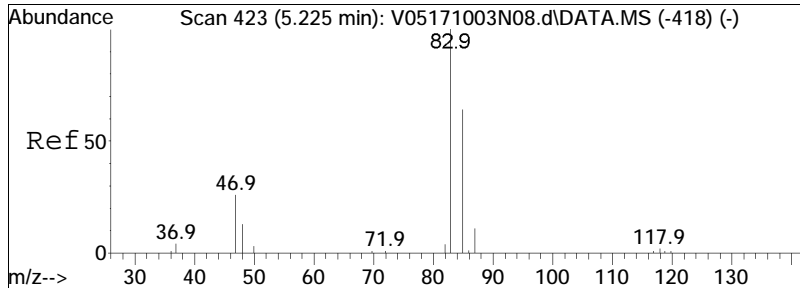




#31
 Cyclohexane
 Concen: 12.42 ug/L
 RT: 5.146 min Scan# 415
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

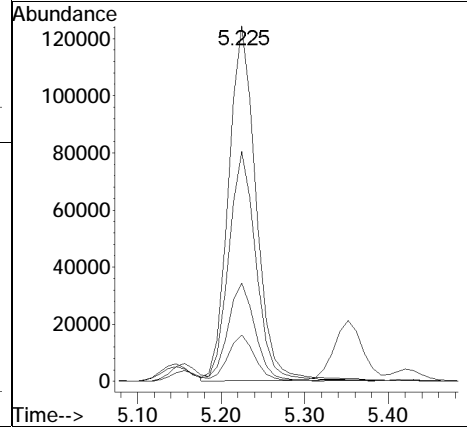
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
56	100		
84	76.9	51.3	106.5

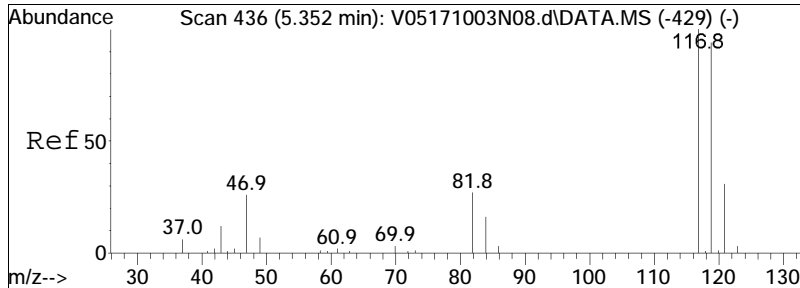




#32
 Chloroform
 Concen: 9.33 ug/L
 RT: 5.225 min Scan# 423
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

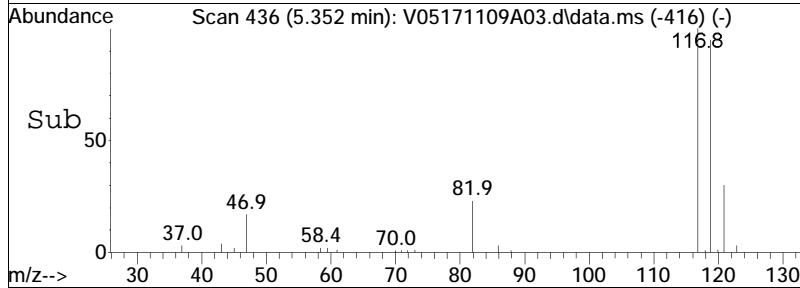
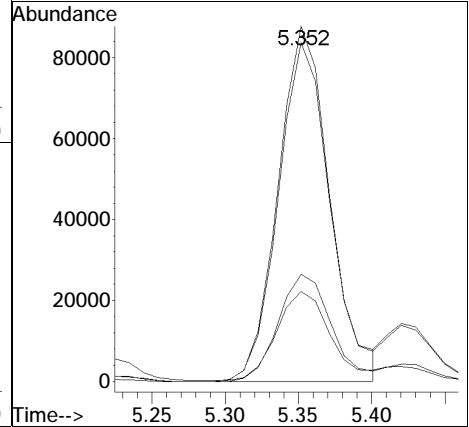
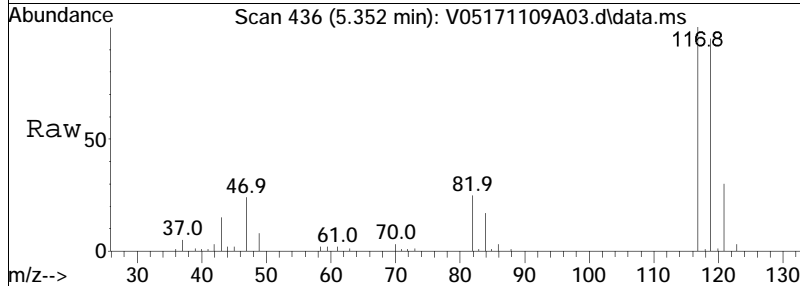
Tgt Ion:	83	Resp:	283765
Ion Ratio	Lower	Upper	
83	100		
85	64.6	42.4	88.2
47	26.0	17.9	37.1
48	12.8	9.1	18.9

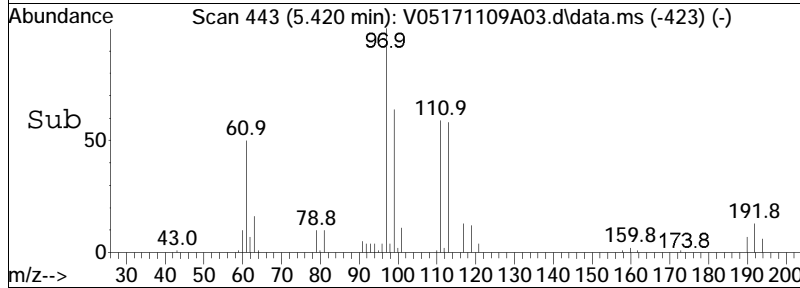
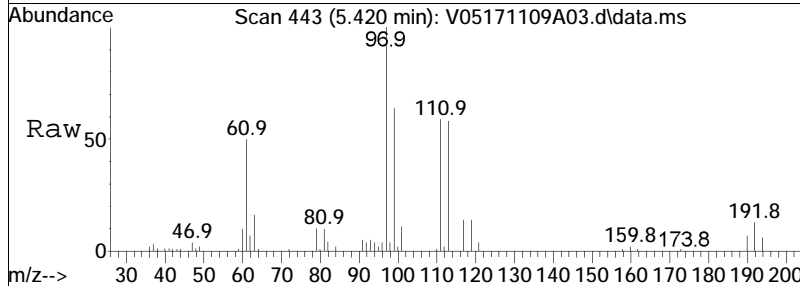
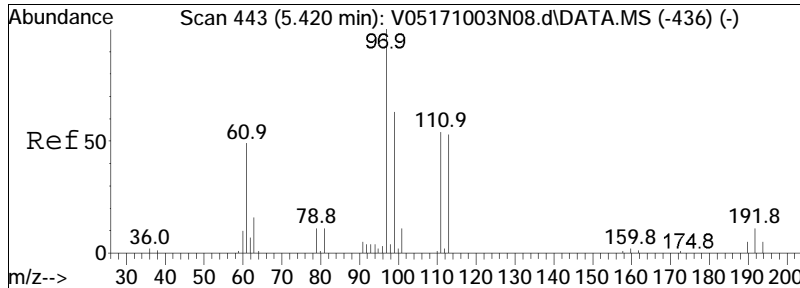




#34
 Carbon tetrachloride
 Concen: 8.13 ug/L
 RT: 5.352 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

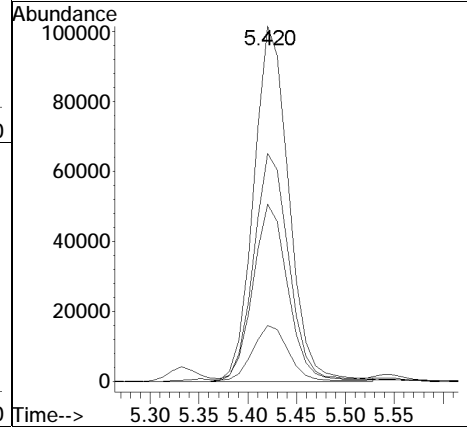
Tgt Ion	Resp	Lower	Upper
117	100		
119	95.7	62.2	129.2
121	30.9	20.2	41.9
82	26.2	17.6	36.6

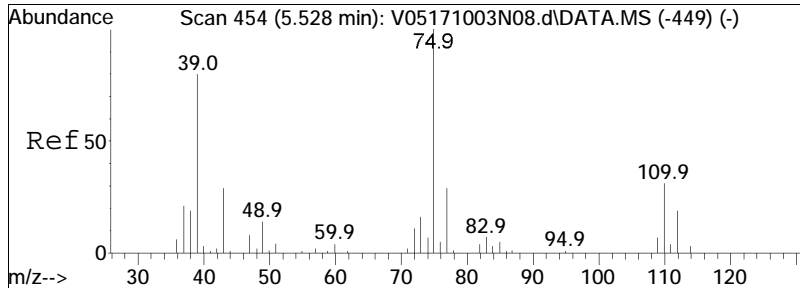




#37
 1,1,1-Trichloroethane
 Concen: 8.66 ug/L
 RT: 5.420 min Scan# 443
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

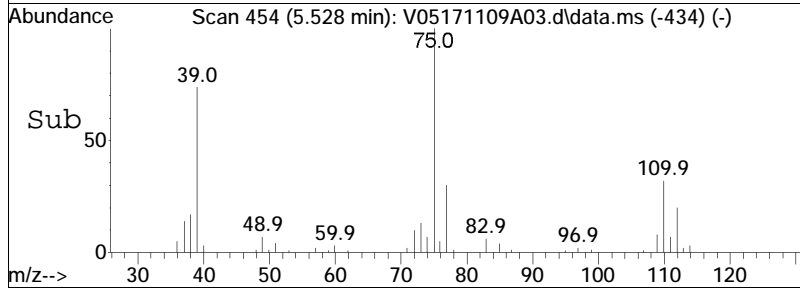
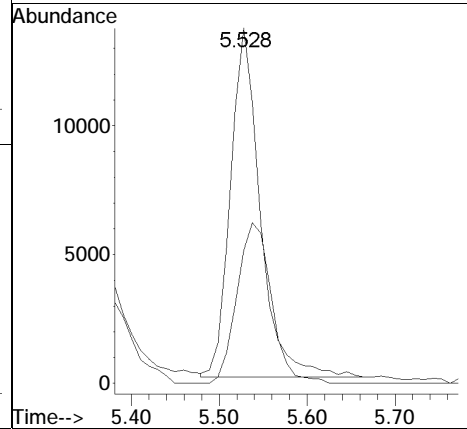
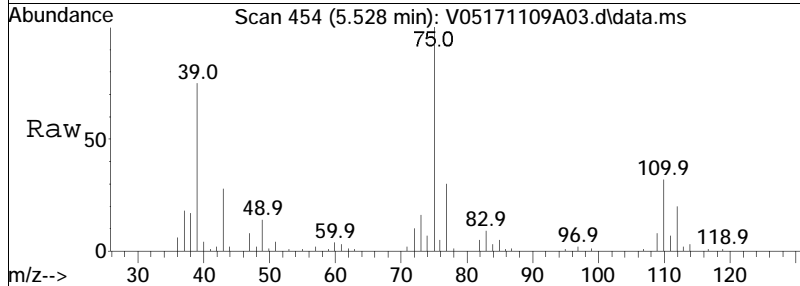
Tgt Ion	Resp	Lower	Upper
97	254457		
97	100		
99	64.9	42.3	87.9
61	48.8	31.3	64.9
63	15.8	10.1	20.9

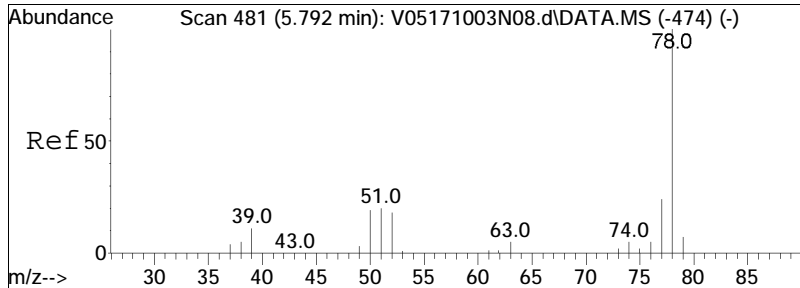




#39
 2-Butanone
 Concen: 11.82 ug/L
 RT: 5.528 min Scan# 454
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

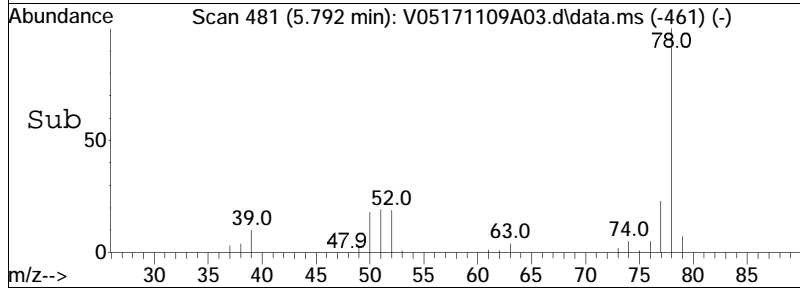
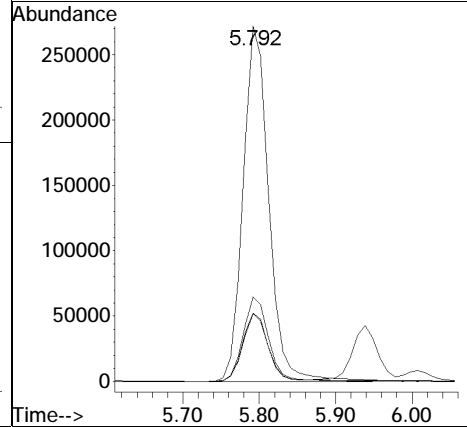
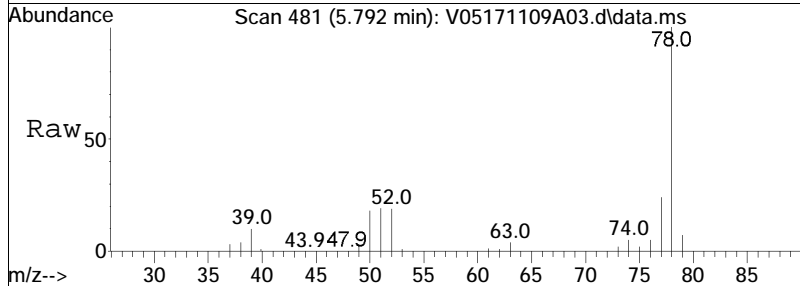
Tgt Ion: 43 Resp: 31923
 Ion Ratio Lower Upper
 43 100
 72 53.2 44.2 66.4

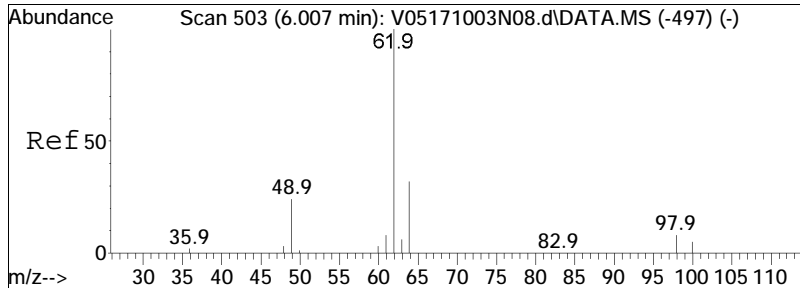




#41
Benzene
Concen: 10.77 ug/L
RT: 5.792 min Scan# 481
Delta R.T. -0.000 min
Lab File: V05171109A03.d
Acq: 9 Nov 2017 8:34

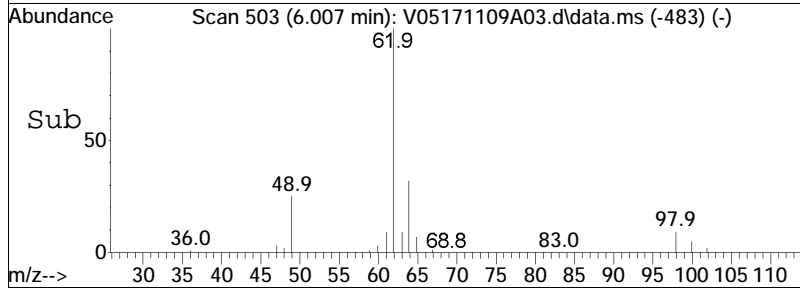
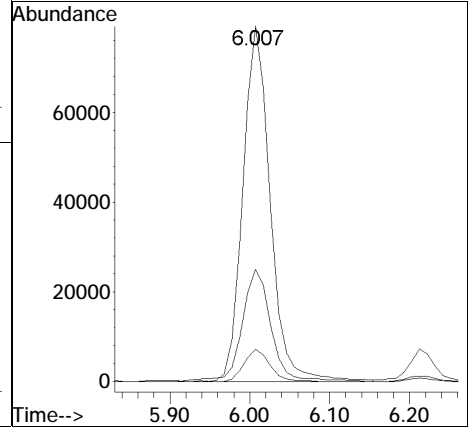
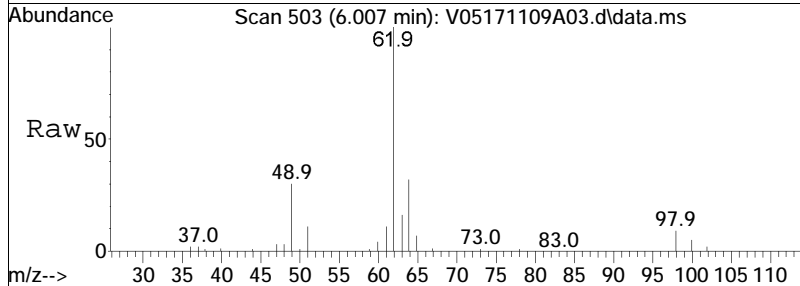
Tgt Ion	Resp	Lower	Upper
78	100		
77	23.7	15.3	31.9
51	19.1	12.5	25.9
52	18.9	11.4	23.6

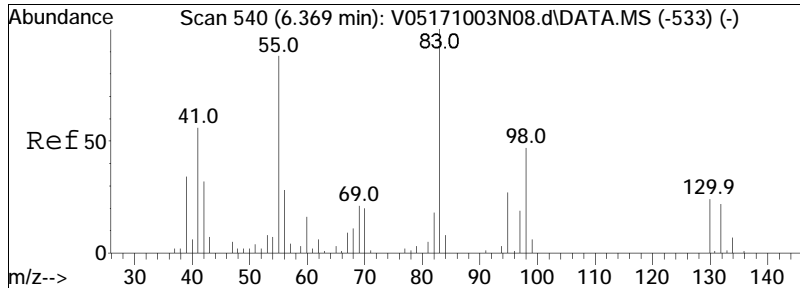




#44
 1,2-Dichloroethane
 Concen: 9.37 ug/L
 RT: 6.007 min Scan# 503
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

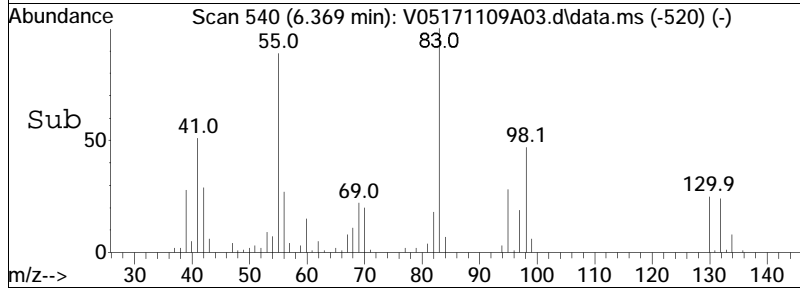
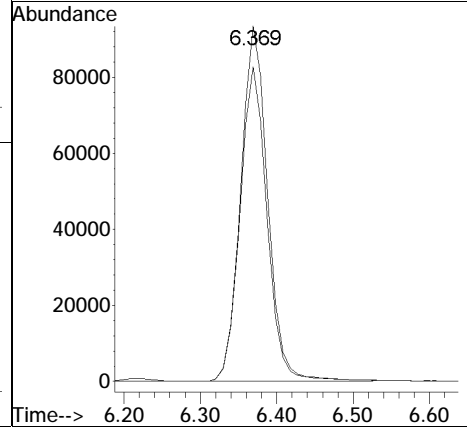
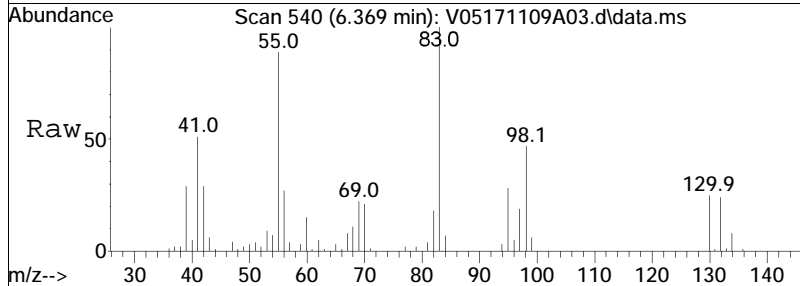
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
62	100		
64	33.2	13.1	53.1
98	8.5	0.0	27.8

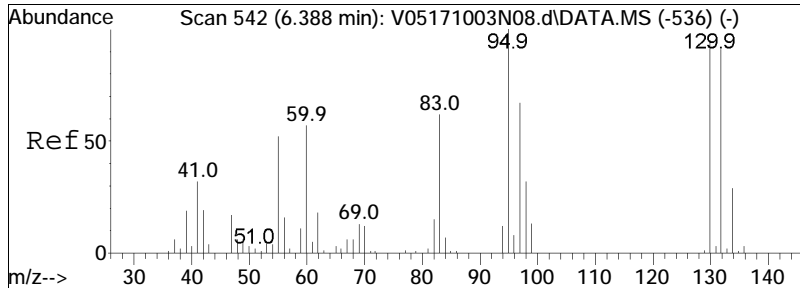




#47
 Methyl cyclohexane
 Concen: 10.83 ug/L
 RT: 6.369 min Scan# 540
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

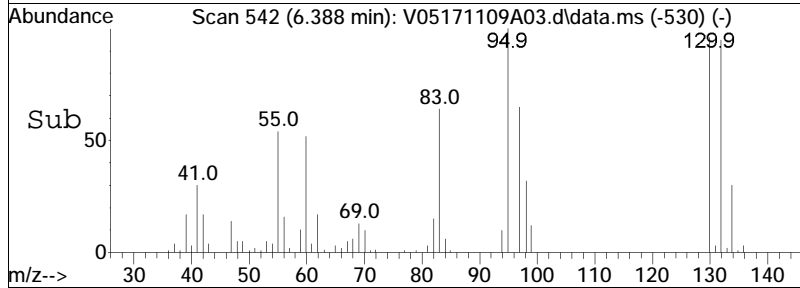
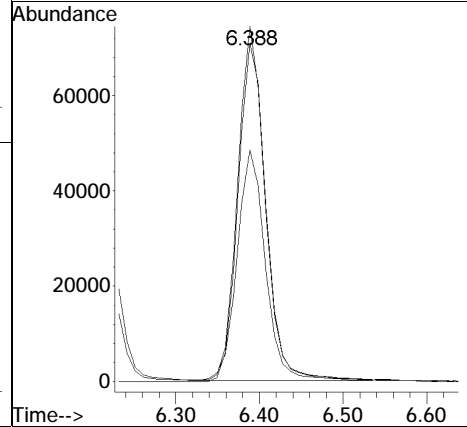
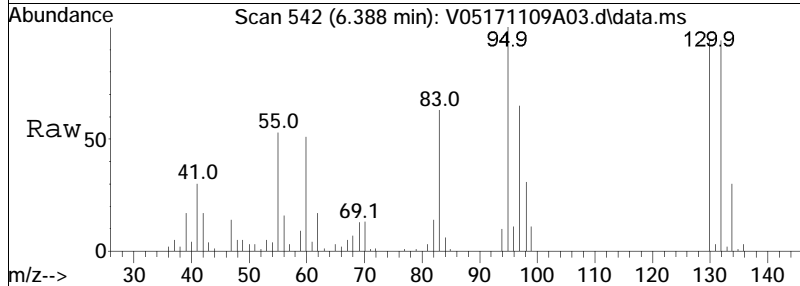
Tgt Ion: 83 Resp: 230113
 Ion Ratio Lower Upper
 83 100
 55 88.6 69.5 104.3

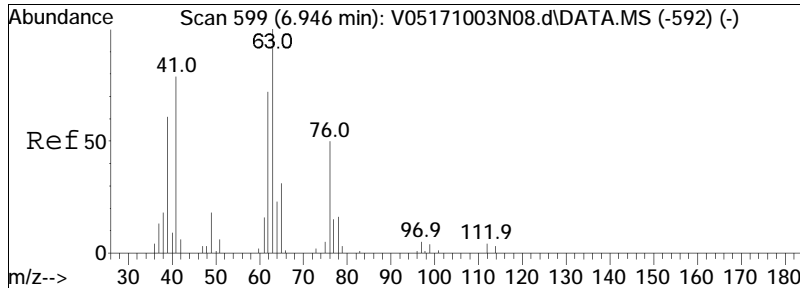




#48
 Trichloroethene
 Concen: 9.20 ug/L
 RT: 6.388 min Scan# 542
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

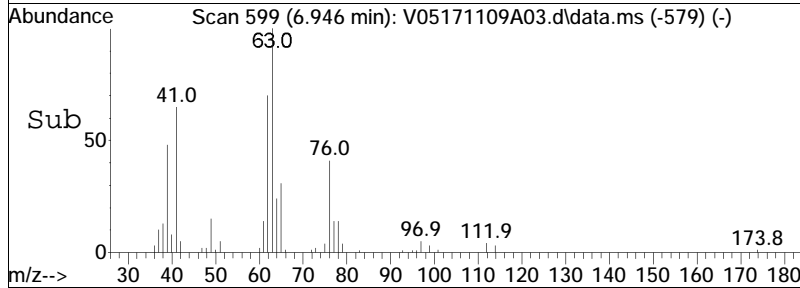
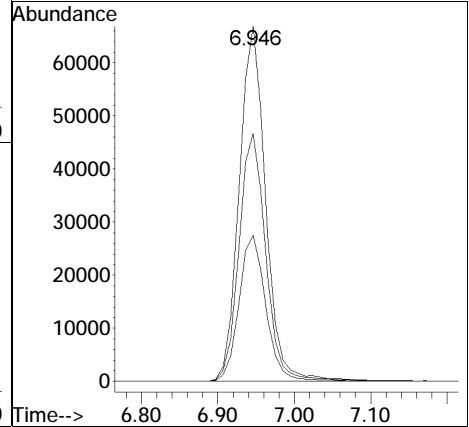
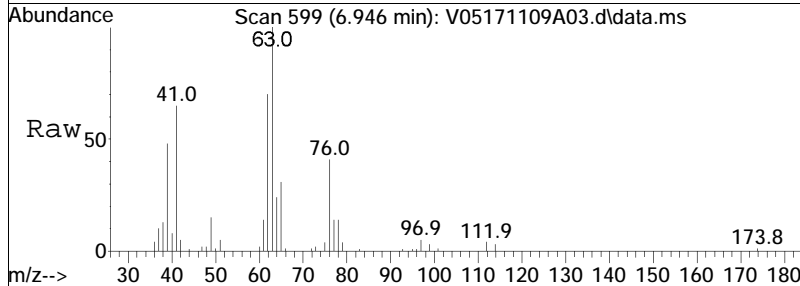
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
95	100		
97	66.7	53.5	80.3
130	98.1	75.9	113.9

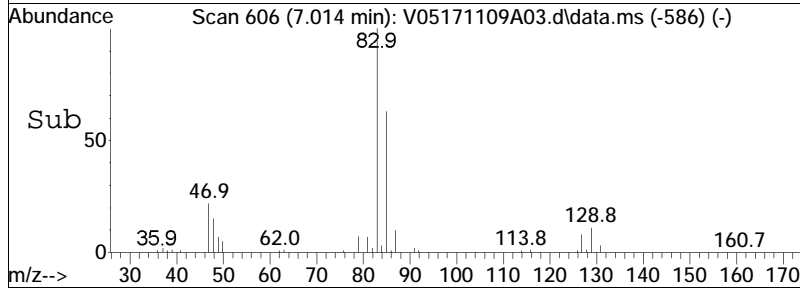
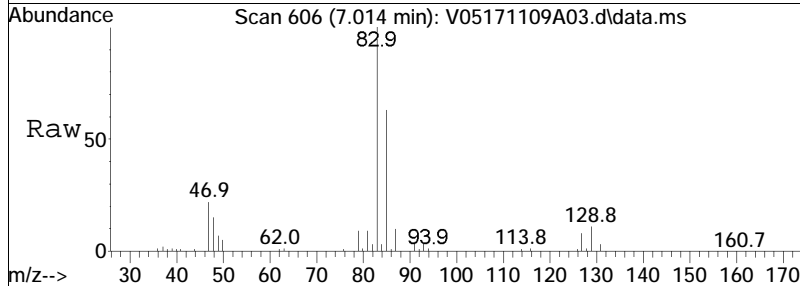
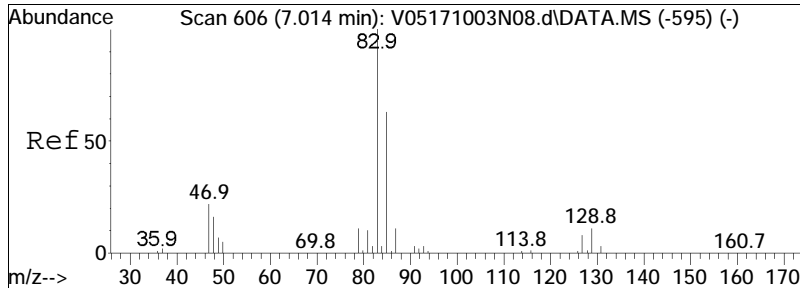




#51
 1,2-Dichloropropane
 Concen: 11.96 ug/L
 RT: 6.946 min Scan# 599
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

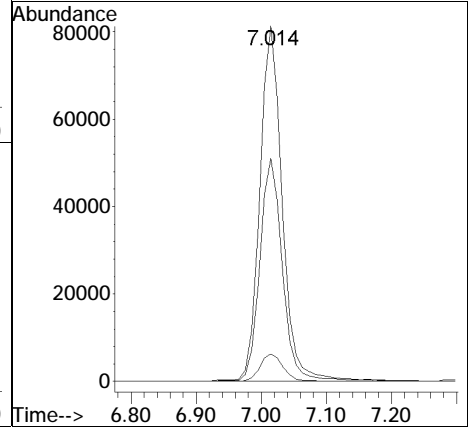
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
63	100		
62	70.6	57.4	86.2
76	41.8	39.8	59.6

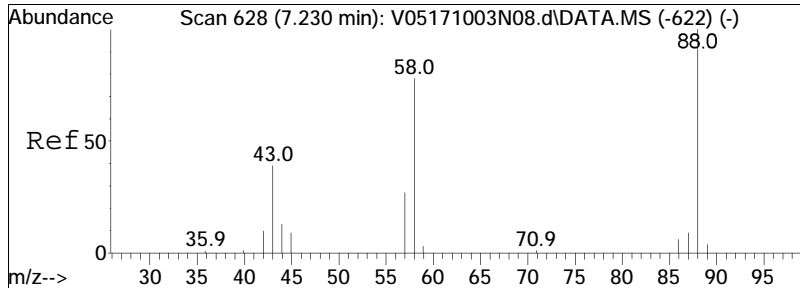




#54
 Bromodichloromethane
 Concen: 9.15 ug/L
 RT: 7.014 min Scan# 606
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

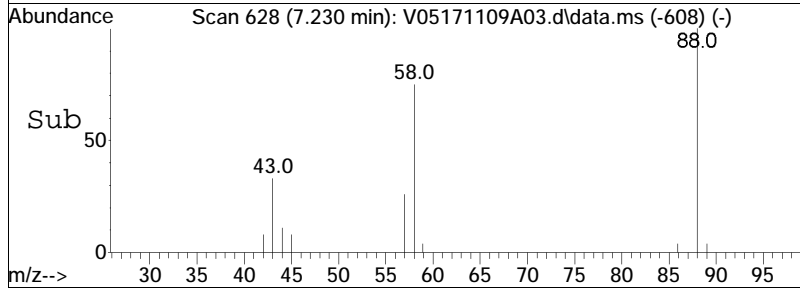
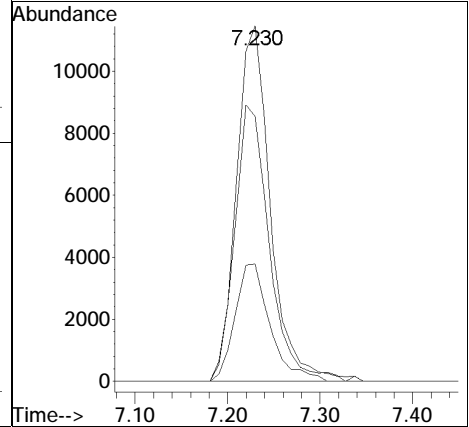
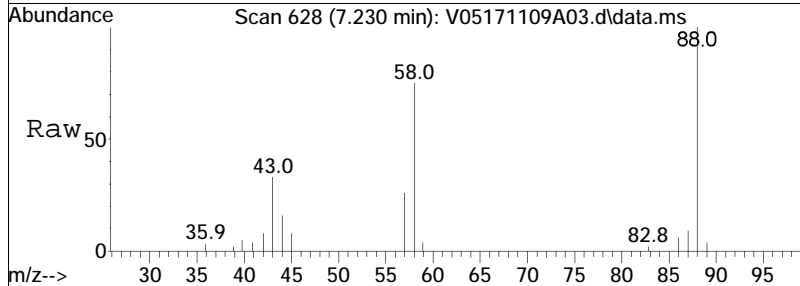
Tgt Ion:	83	Resp:	195482
Ion Ratio	Lower	Upper	
83	100		
85	63.1	50.3	75.5
127	7.9	6.6	9.8

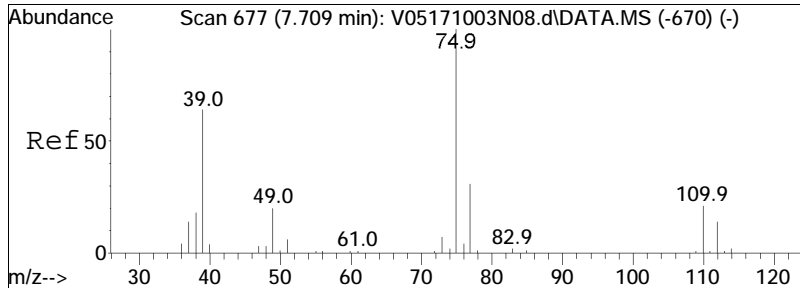




#57
 1,4-Dioxane
 Concen: 536.42 ug/L
 RT: 7.230 min Scan# 628
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

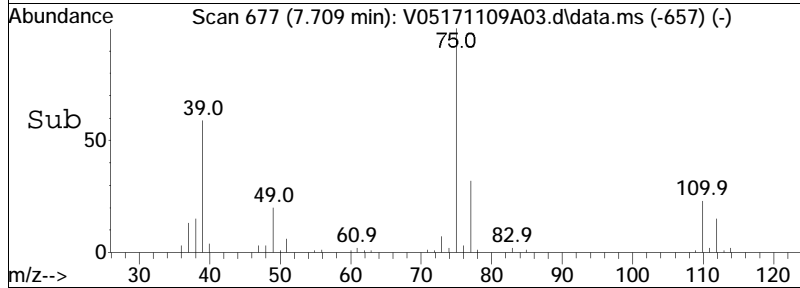
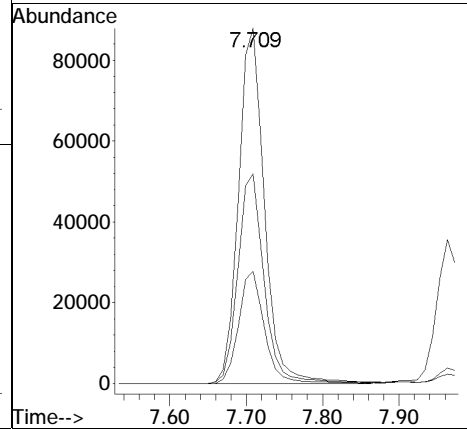
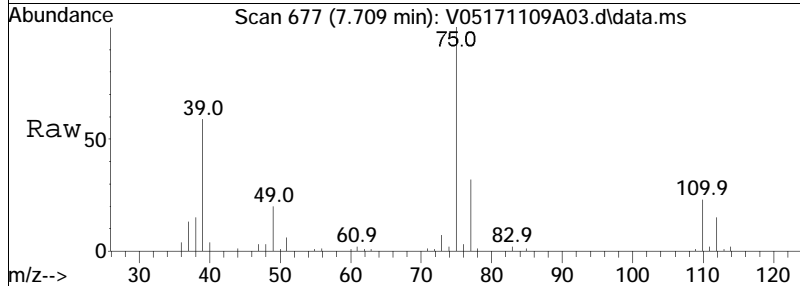
Tgt Ion:	88	Resp:	29374
Ion Ratio	Lower	Upper	
88	100		
58	79.1	61.5	92.3
43	34.1	30.5	45.7

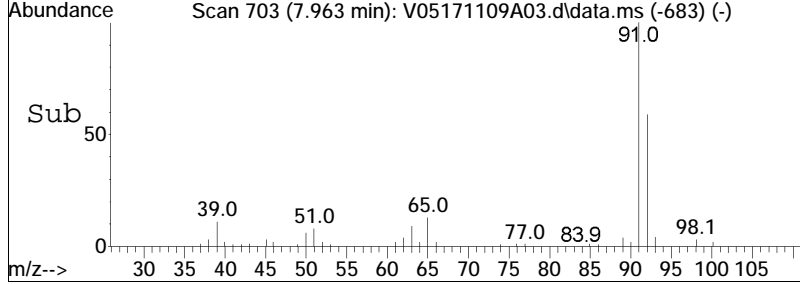
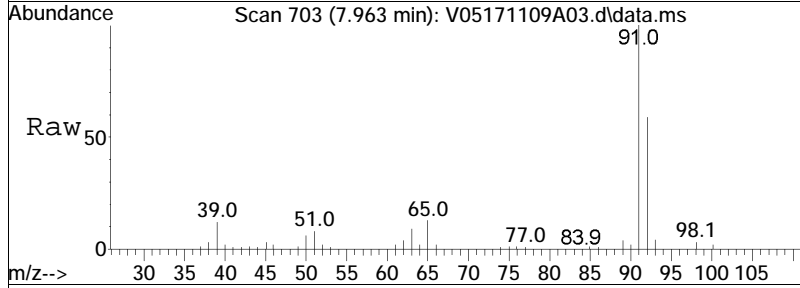
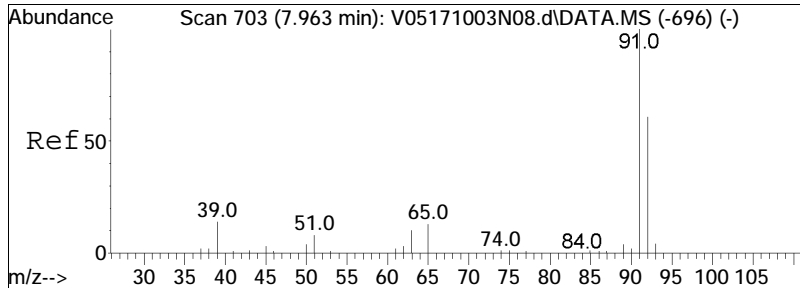




#58
 cis-1,3-Dichloropropene
 Concen: 8.86 ug/L
 RT: 7.709 min Scan# 677
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

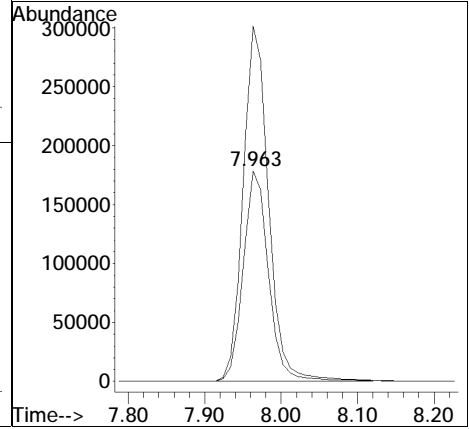
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
75	100		
77	31.4	25.1	37.7
39	59.6	53.4	80.2

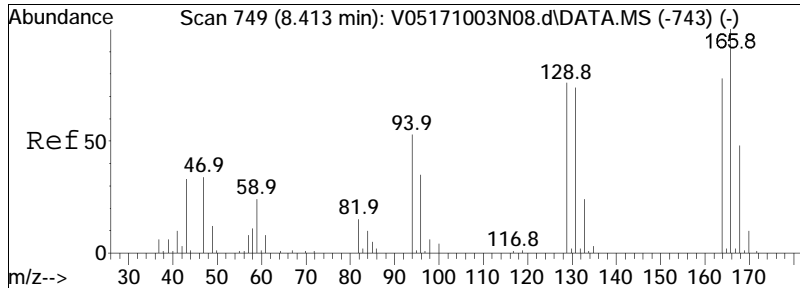




#61
 Toluene
 Concen: 10.95 ug/L
 RT: 7.963 min Scan# 703
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

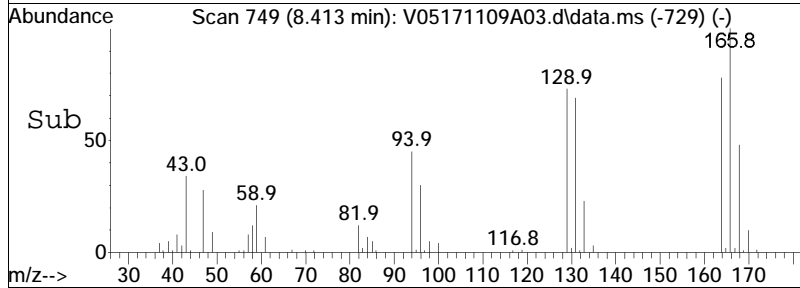
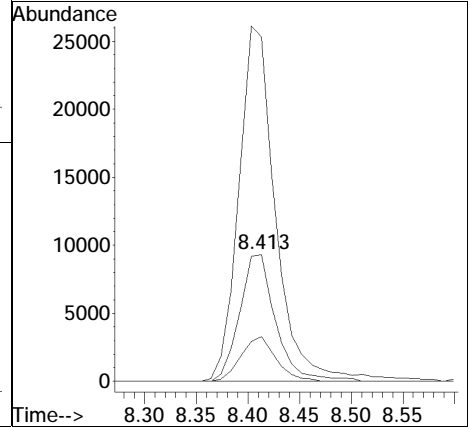
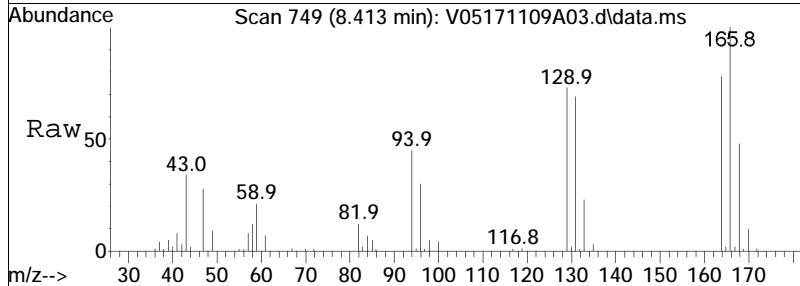
Tgt Ion	Resp	Lower	Upper
92	411791		
91	169.4	133.0	199.4

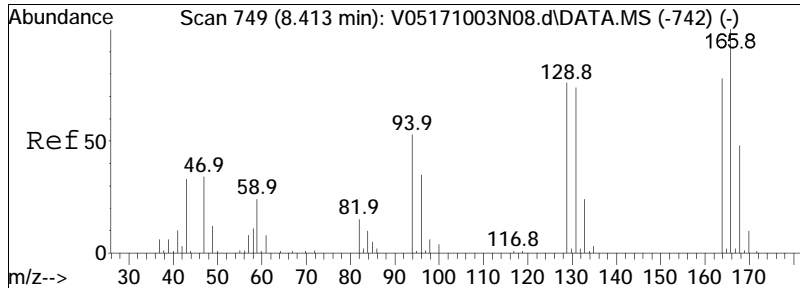




#62
 4-Methyl-2-pentanone
 Concen: 12.07 ug/L
 RT: 8.413 min Scan# 749
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

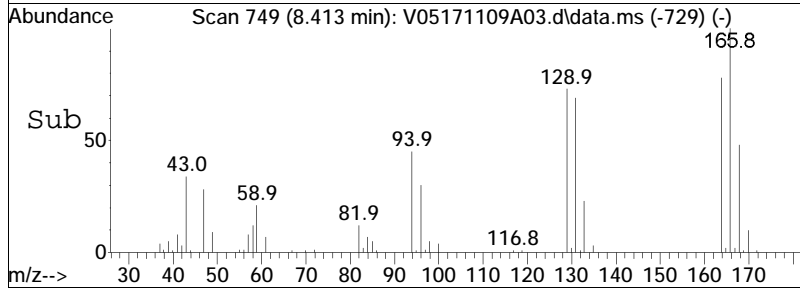
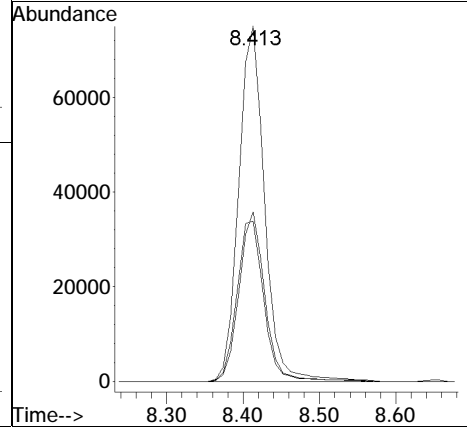
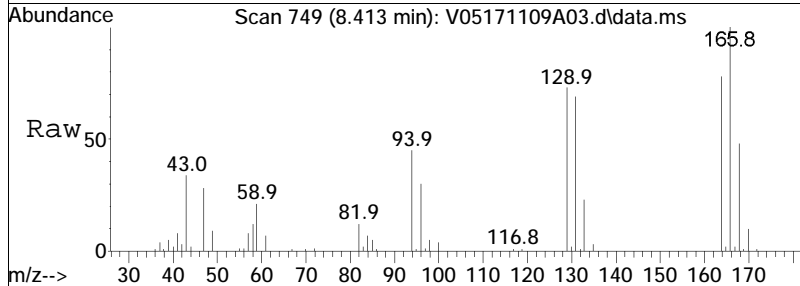
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
58	100		
100	34.4	29.3	43.9
43	286.8	247.4	371.0

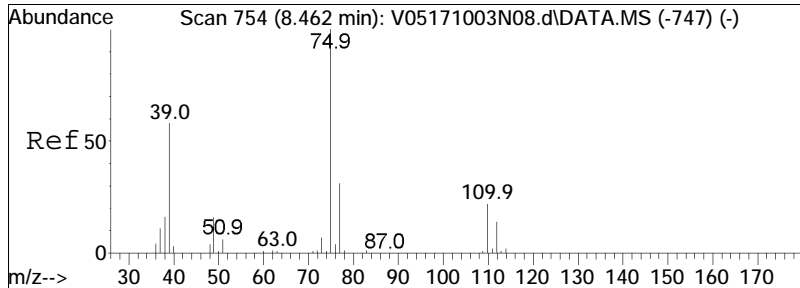




#63
 Tetrachloroethene
 Concen: 8.52 ug/L
 RT: 8.413 min Scan# 749
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

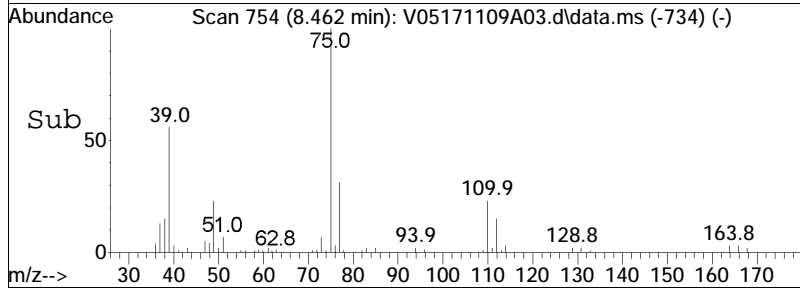
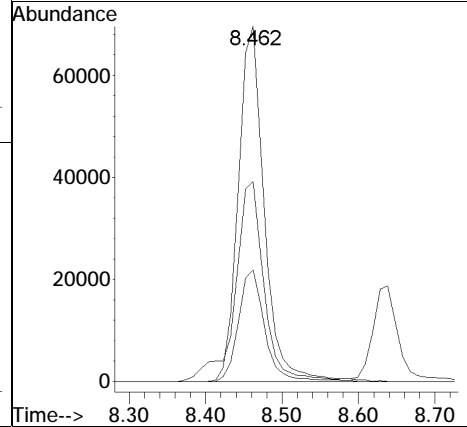
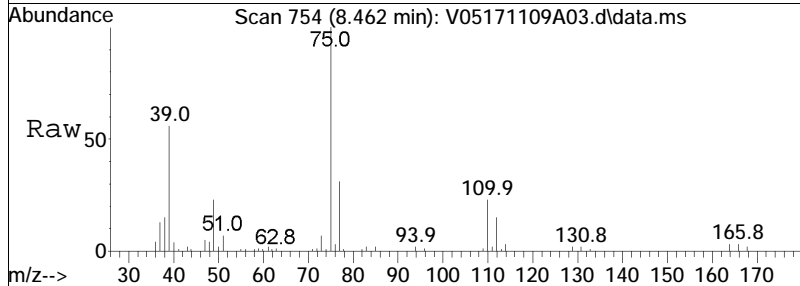
Tgt Ion	Resp	Lower	Upper
166	100		
168	47.5	27.2	67.2
94	47.0	35.8	75.8

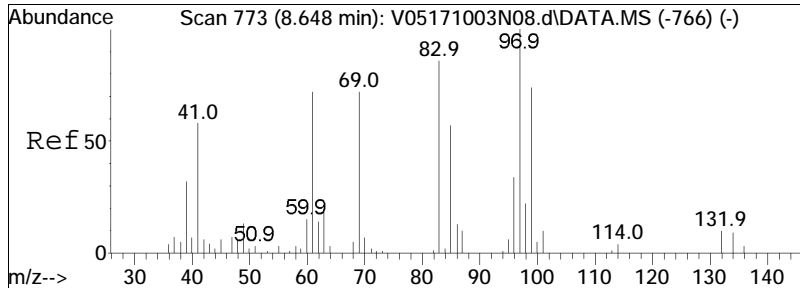




#65
 trans-1,3-Dichloropropene
 Concen: 9.19 ug/L
 RT: 8.462 min Scan# 754
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

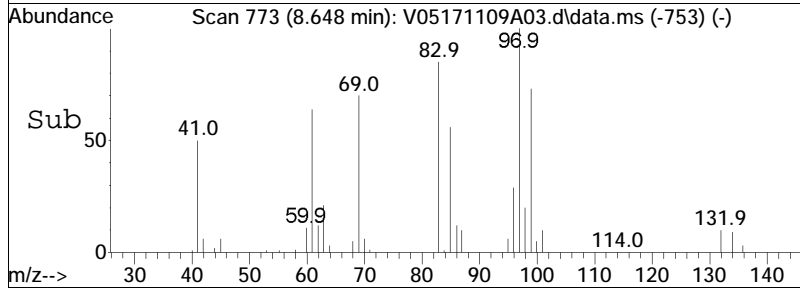
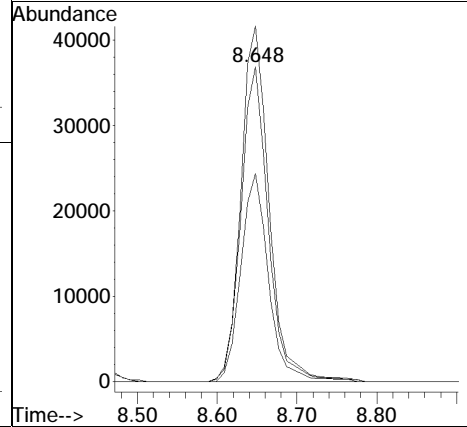
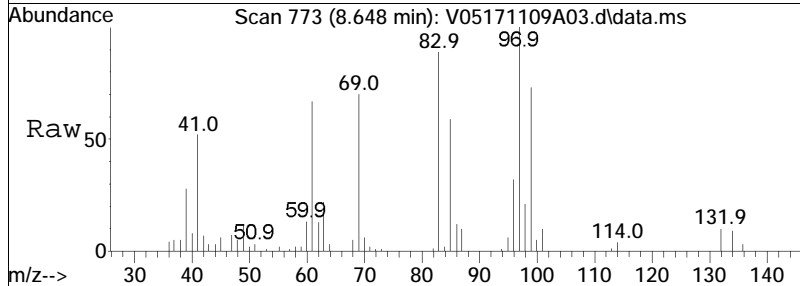
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
75	100		
77	31.6	10.9	50.9
39	62.3	48.1	88.1

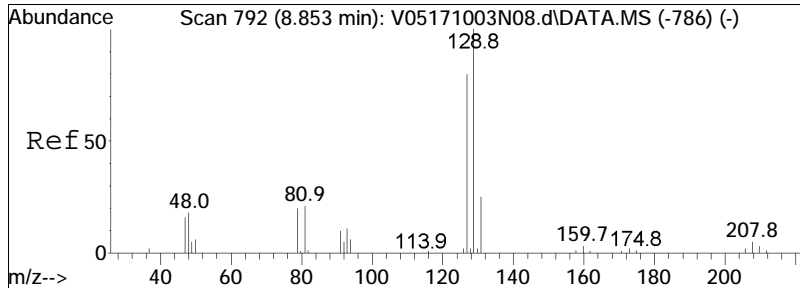




#68
 1,1,2-Trichloroethane
 Concen: 11.43 ug/L
 RT: 8.648 min Scan# 773
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

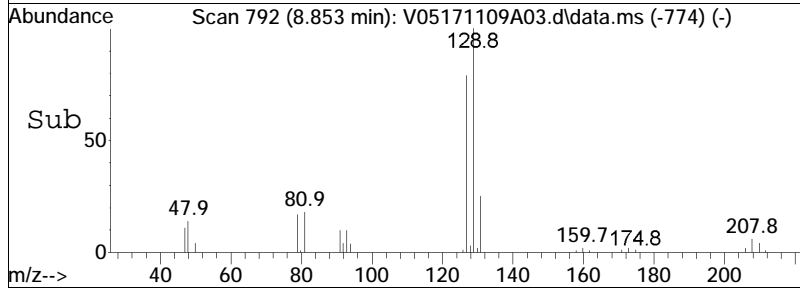
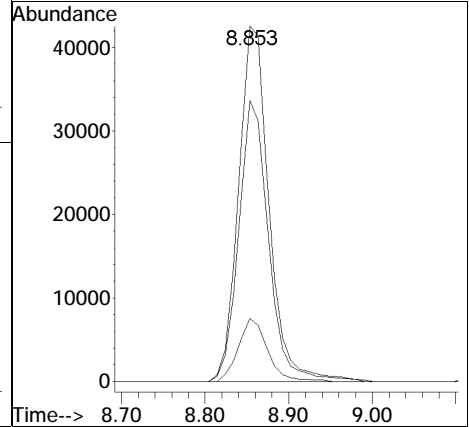
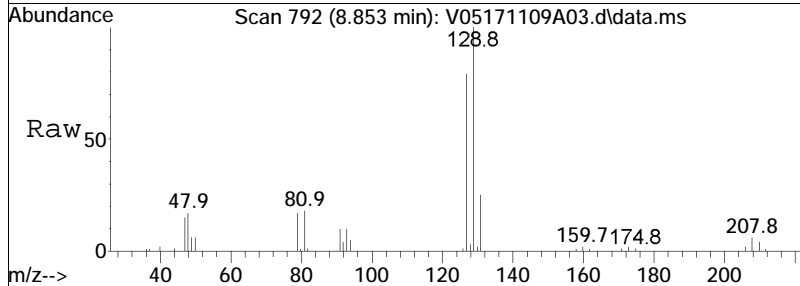
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
83	100		
97	115.8	93.6	133.6
85	67.3	46.9	86.9

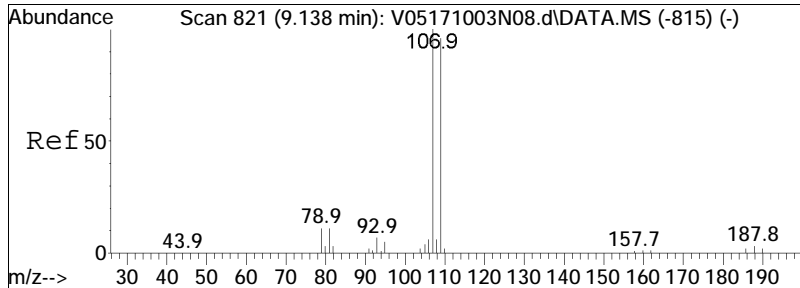




#69
 Chlorodibromomethane
 Concen: 8.99 ug/L
 RT: 8.853 min Scan# 792
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

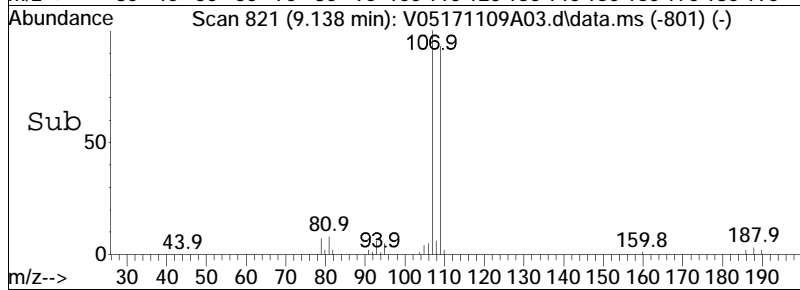
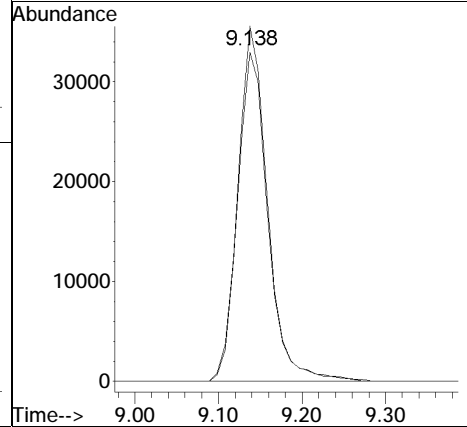
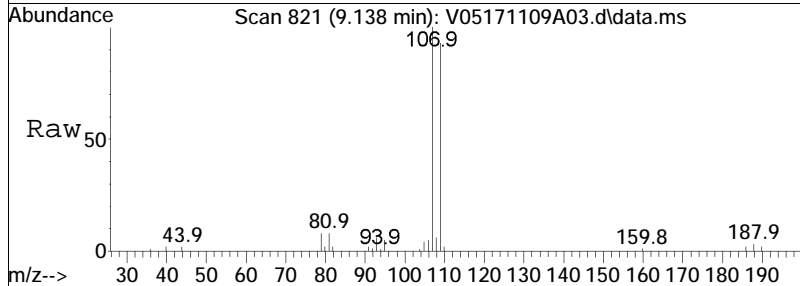
Tgt Ion	Resp	Lower	Upper
129	107912		
129	100		
81	16.9	0.0	40.0
127	77.3	57.9	97.9

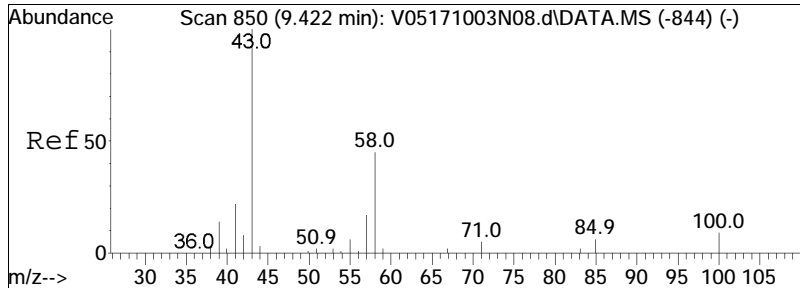




#71
 1,2-Dibromoethane
 Concen: 10.36 ug/L
 RT: 9.138 min Scan# 821
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

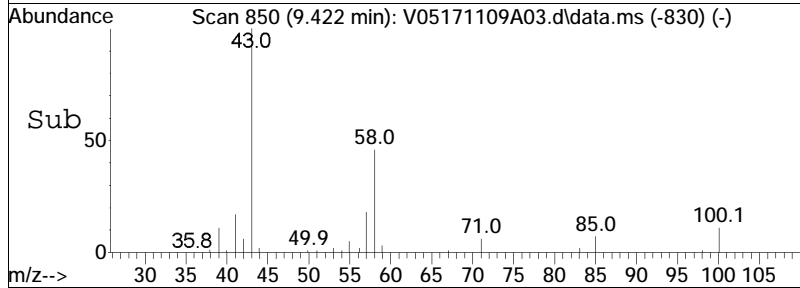
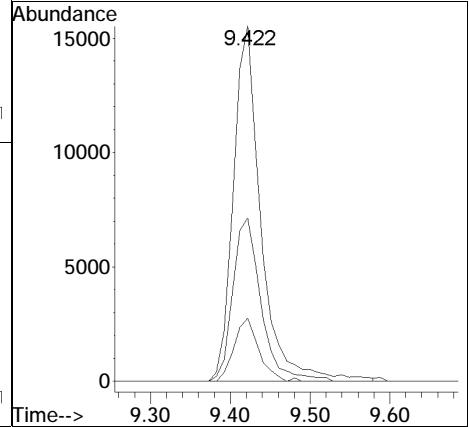
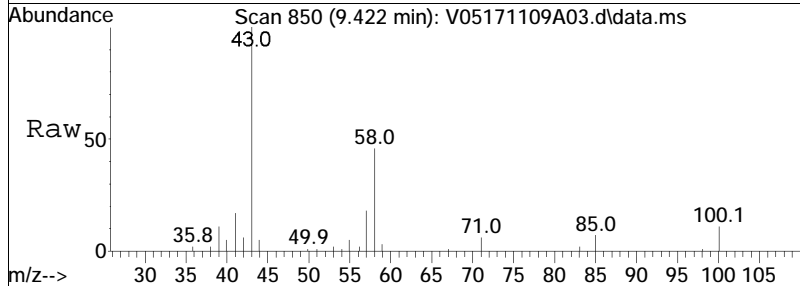
Tgt Ion	Resp	Lower	Upper
107	87988		
109	94.4	75.5	113.3

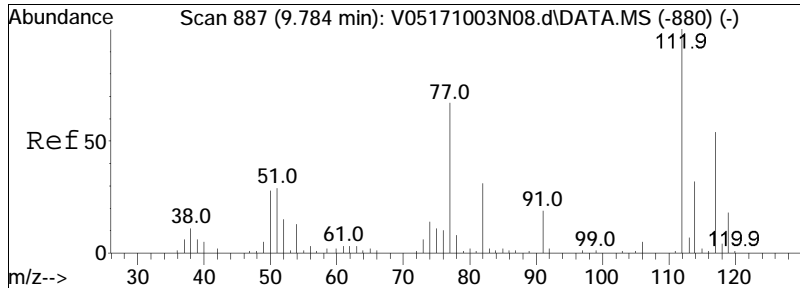




#72
 2-Hexanone
 Concen: 9.97 ug/L
 RT: 9.422 min Scan# 850
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

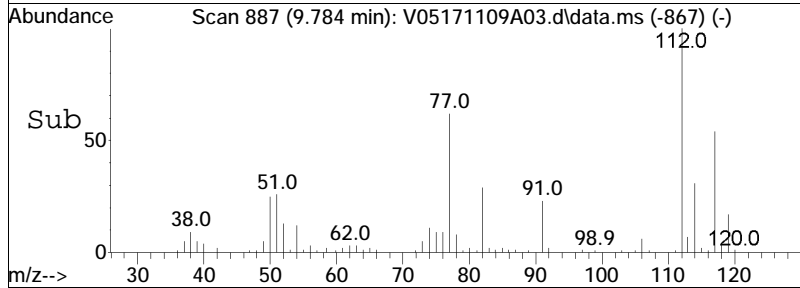
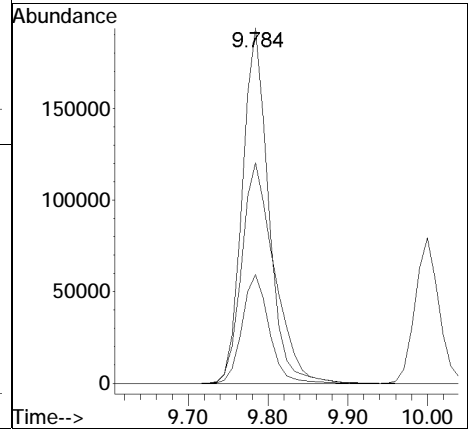
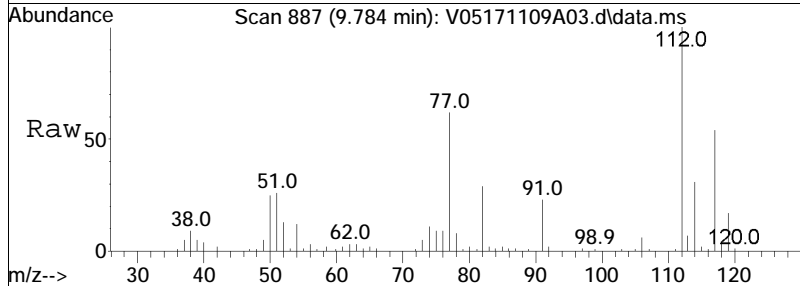
Tgt Ion	Resp	Lower	Upper
43	37396		
58	47.1	32.8	49.2
57	16.1	11.8	17.8

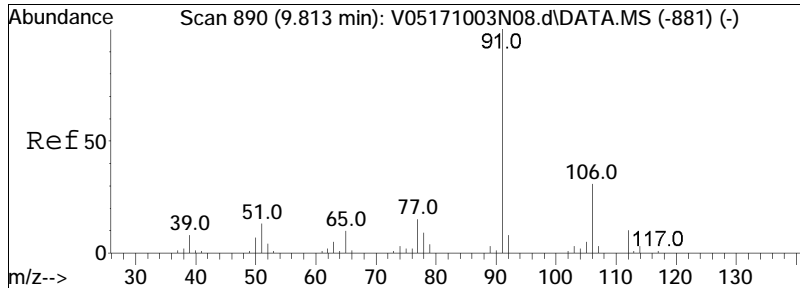




#73
 Chlorobenzene
 Concen: 10.26 ug/L
 RT: 9.784 min Scan# 887
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

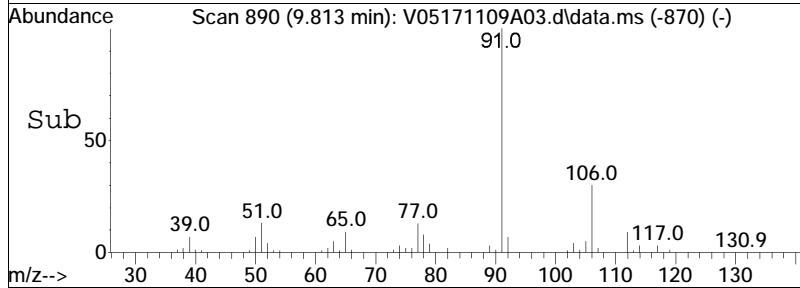
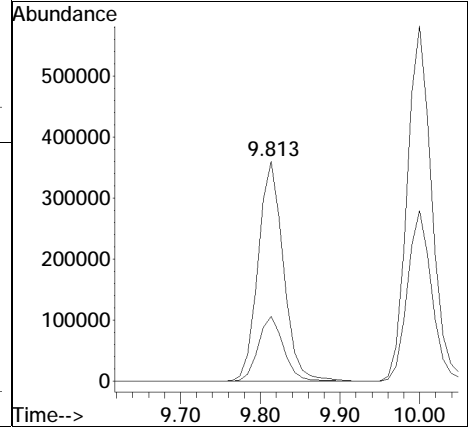
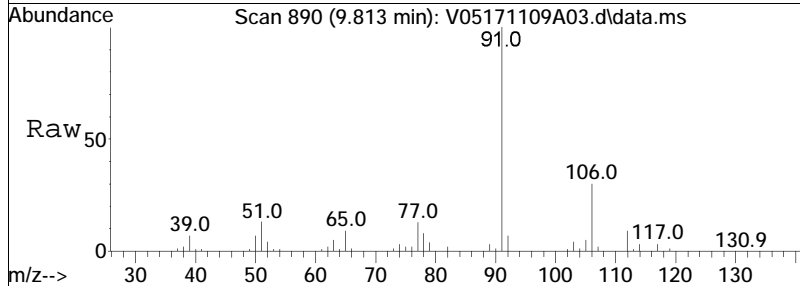
Tgt Ion	Resp	Lower	Upper
112	100		
77	78.1	67.0	100.4
114	31.6	25.6	38.4

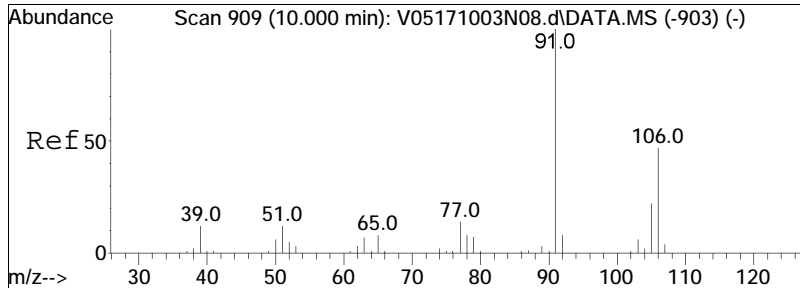




#74
 Ethylbenzene
 Concen: 11.09 ug/L
 RT: 9.813 min Scan# 890
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

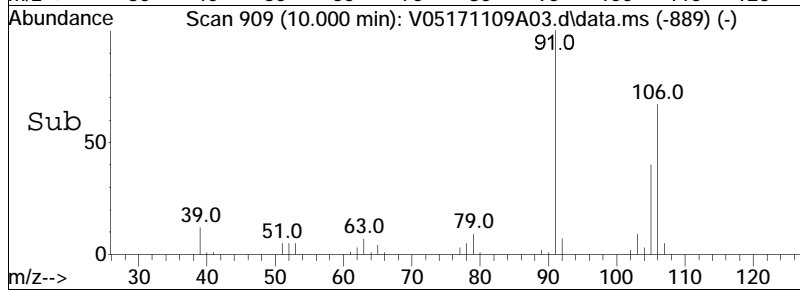
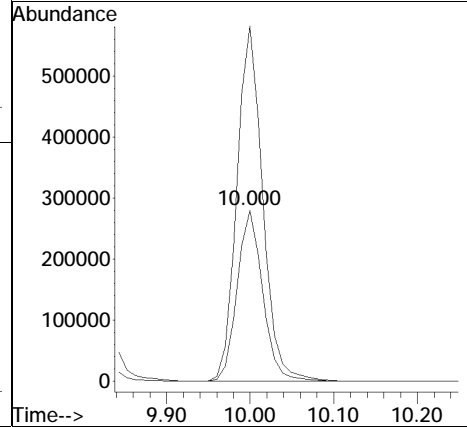
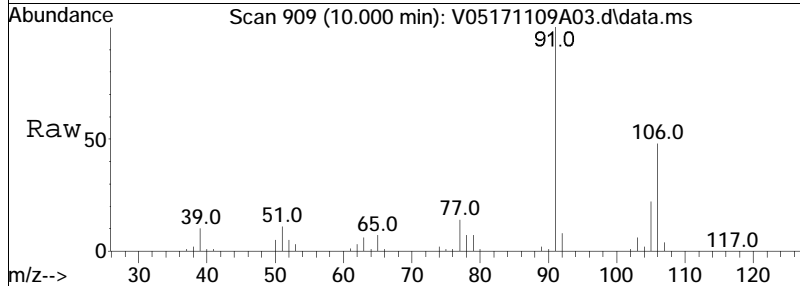
Tgt Ion: 91 Resp: 799302
 Ion Ratio Lower Upper
 91 100
 106 29.6 23.8 35.8

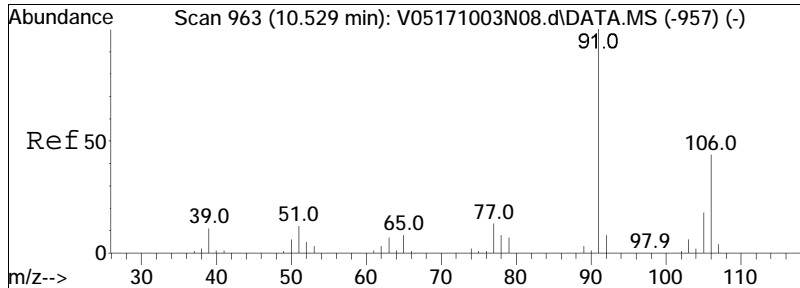




#76
 p/m Xylene
 Concen: 21.92 ug/L
 RT: 10.000 min Scan# 909
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

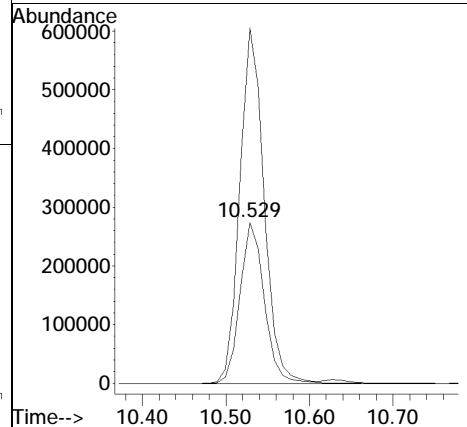
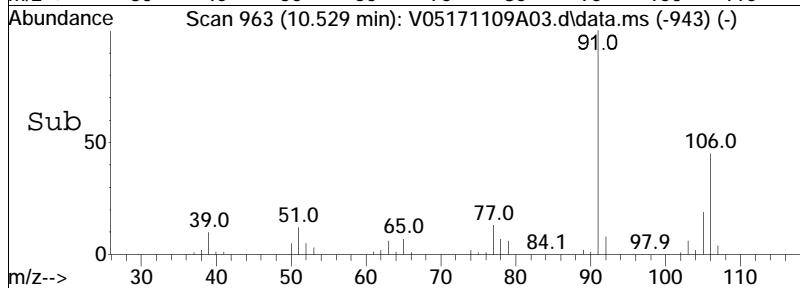
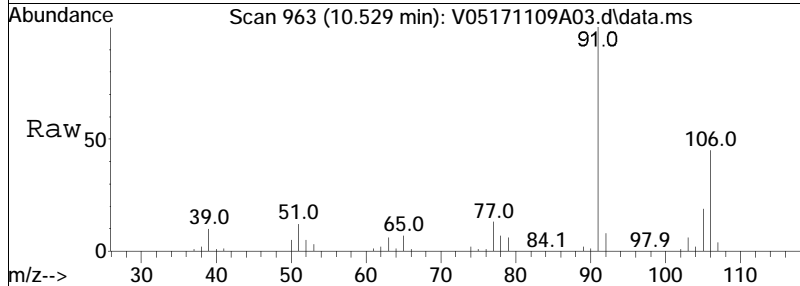
Tgt Ion	Resp	Lower	Upper
106	100		
91	208.8	169.0	253.4

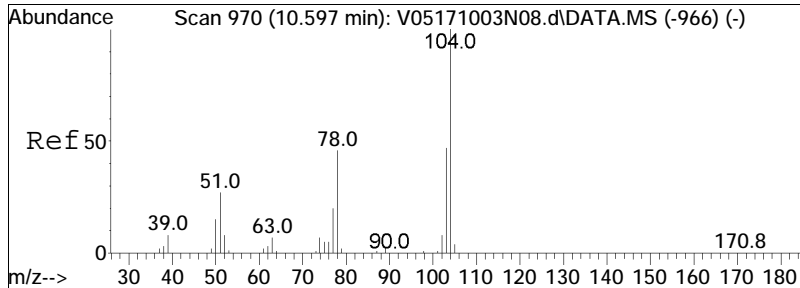




#77
 o Xylene
 Concen: 20.99 ug/L
 RT: 10.529 min Scan# 963
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

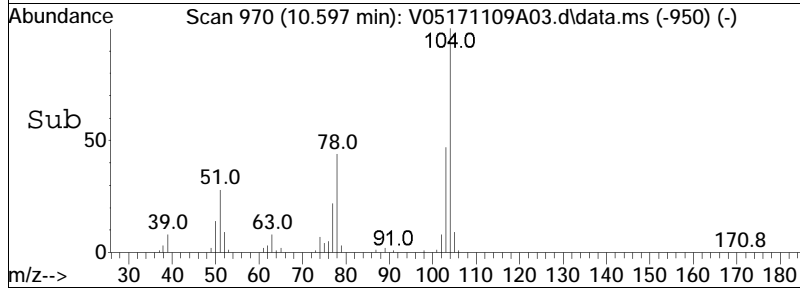
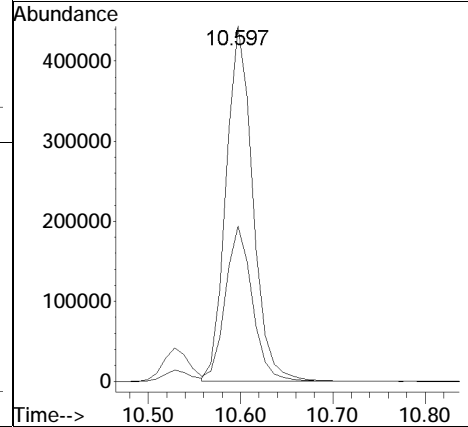
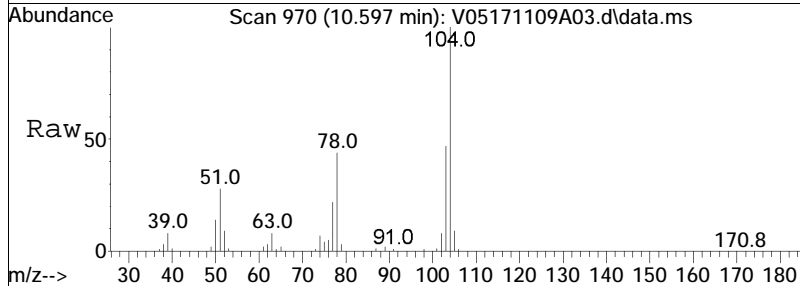
Tgt Ion	Resp	Lower	Upper
106	100		
91	220.5	178.9	268.3

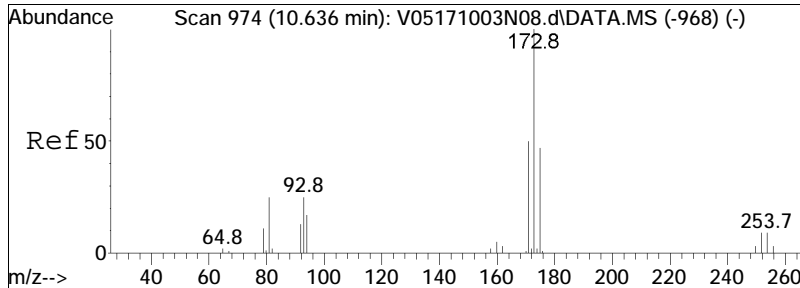




#78
 Styrene
 Concen: 21.07 ug/L
 RT: 10.597 min Scan# 970
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

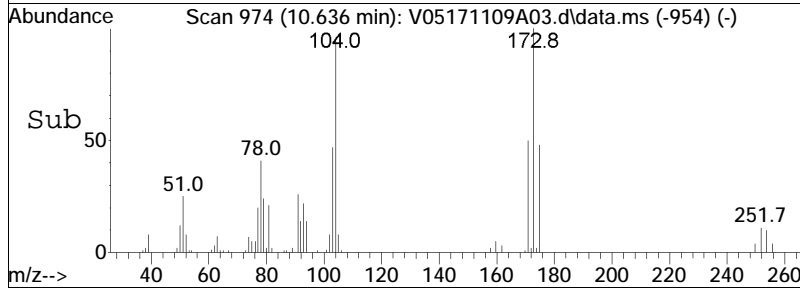
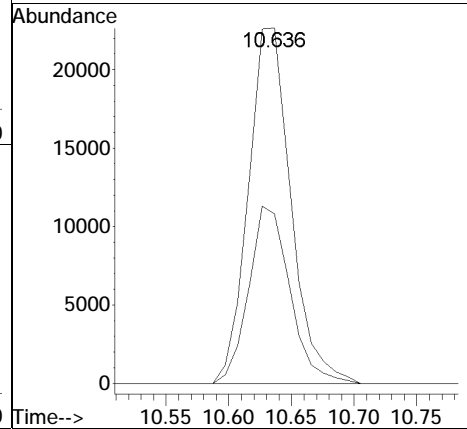
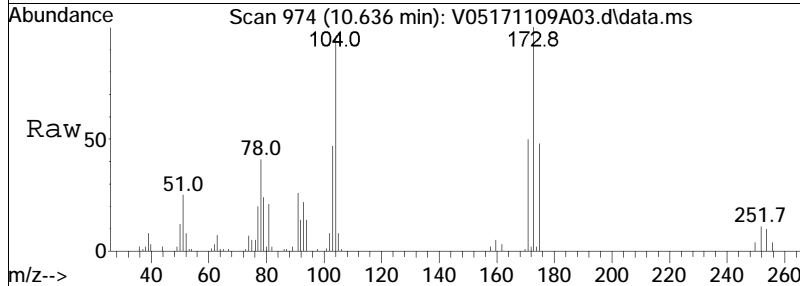
Tgt Ion	Resp	Lower	Upper
104	100		
78	43.9	37.9	56.9

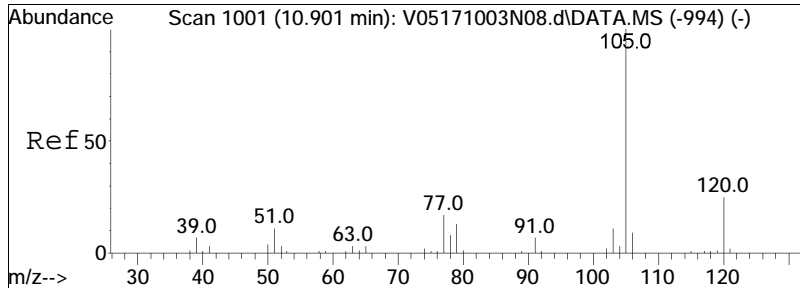




#80
 Bromoform
 Concen: 9.12 ug/L
 RT: 10.636 min Scan# 974
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

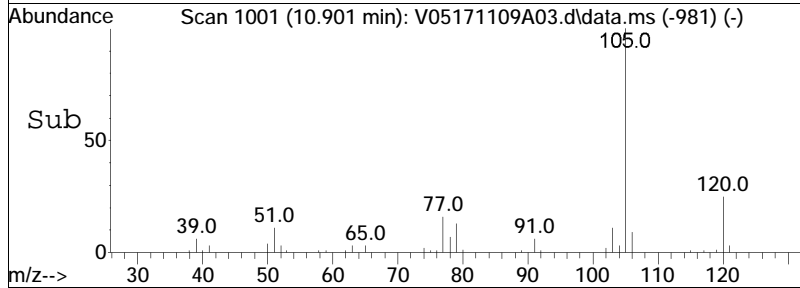
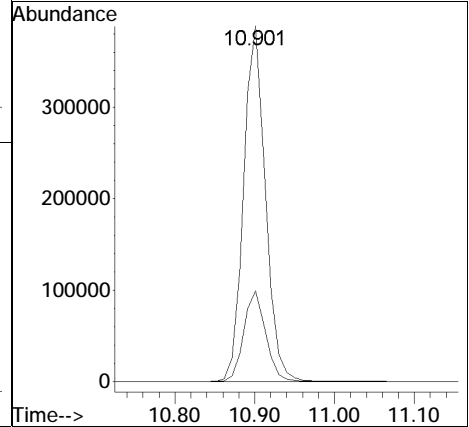
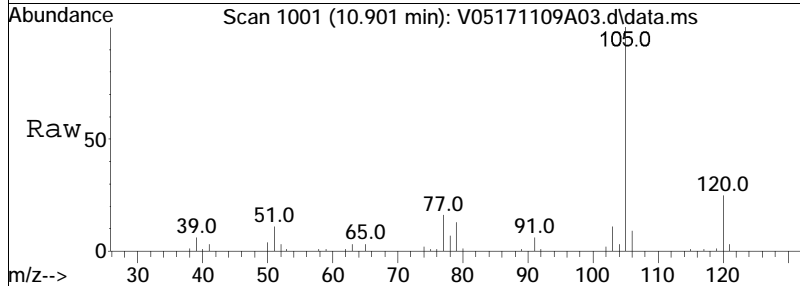
Tgt Ion: 173 Resp: 53563
 Ion Ratio Lower Upper
 173 100
 175 48.3 27.7 67.7

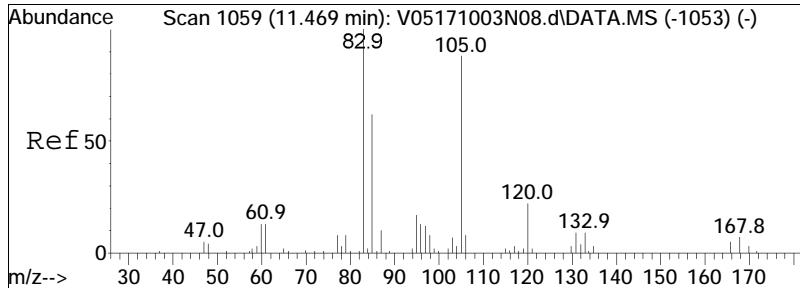




#82
 Isopropylbenzene
 Concen: 11.07 ug/L
 RT: 10.901 min Scan# 1001
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

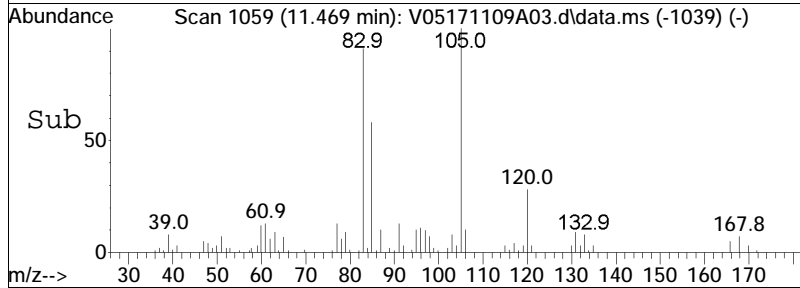
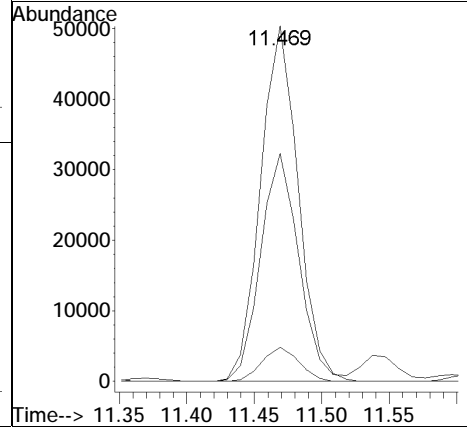
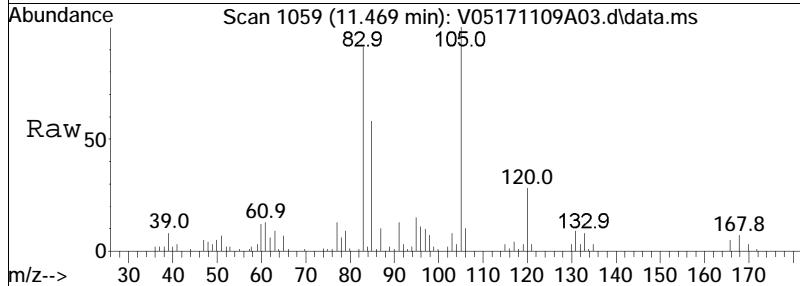
Tgt Ion: 105 Resp: 736731
 Ion Ratio Lower Upper
 105 100
 120 25.4 5.8 45.8

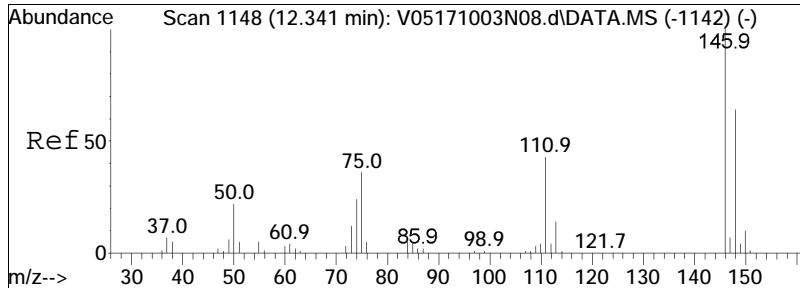




#87
 1,1,2,2-Tetrachloroethane
 Concen: 13.27 ug/L
 RT: 11.469 min Scan# 1059
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

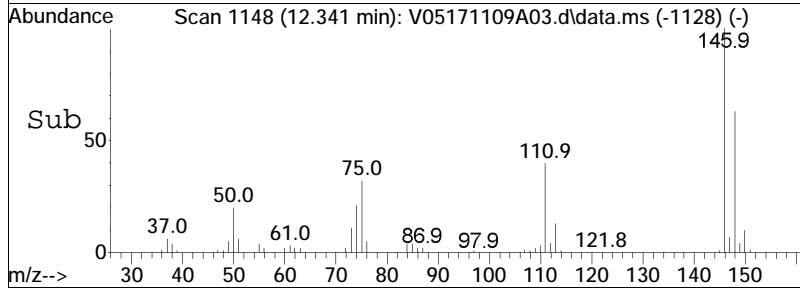
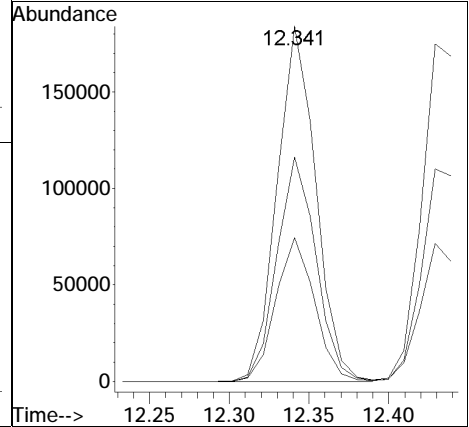
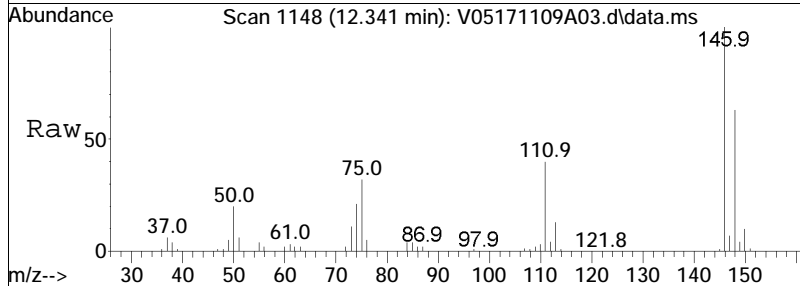
Tgt Ion	Resp	Lower	Upper
83	97597		
83	100		
131	9.5	0.0	29.3
85	65.3	44.5	84.5

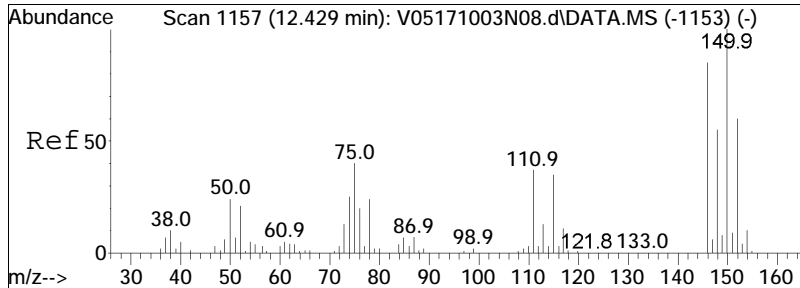




#100
 1,3-Dichlorobenzene
 Concen: 10.53 ug/L
 RT: 12.341 min Scan# 1148
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

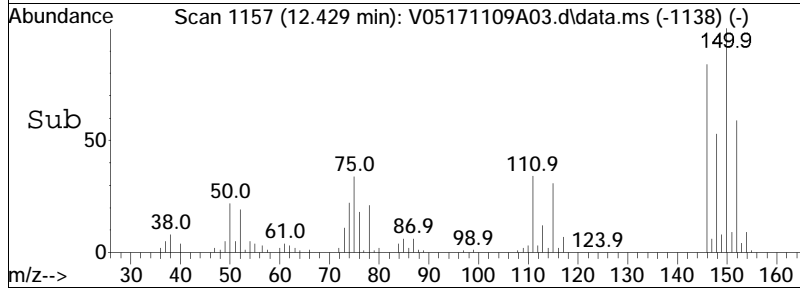
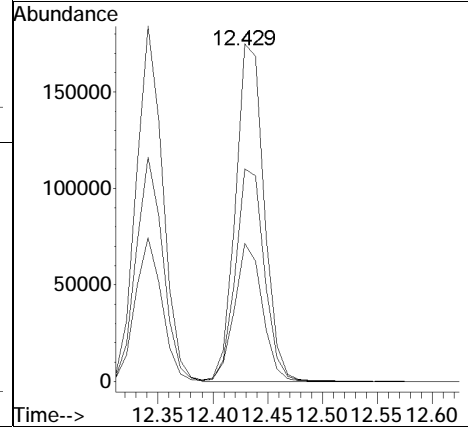
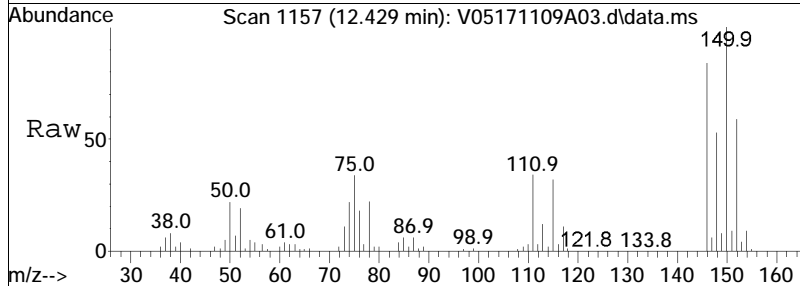
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	310702		
111	40.6		27.6	57.4
148	63.8		41.3	85.9

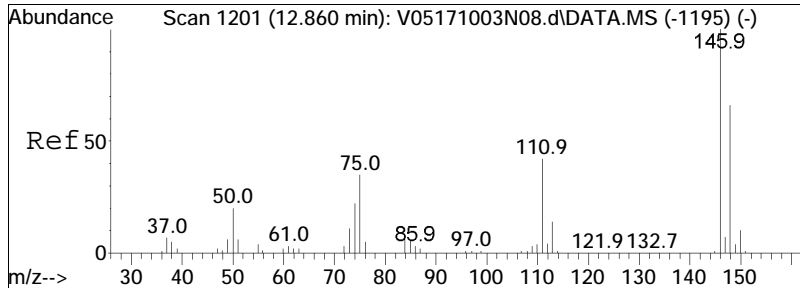




#101
 1,4-Dichlorobenzene
 Concen: 10.26 ug/L
 RT: 12.429 min Scan# 1157
 Delta R.T. -0.010 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

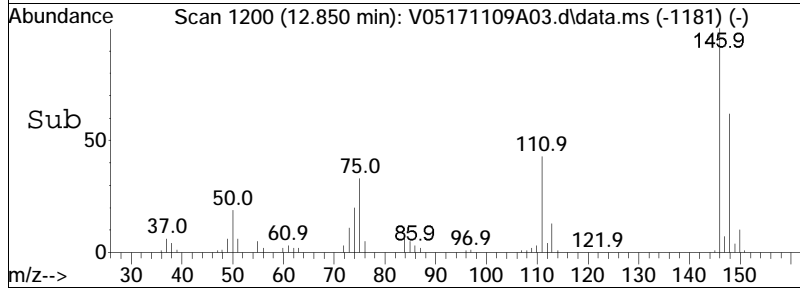
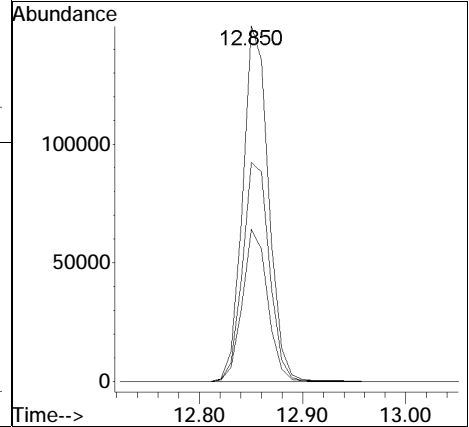
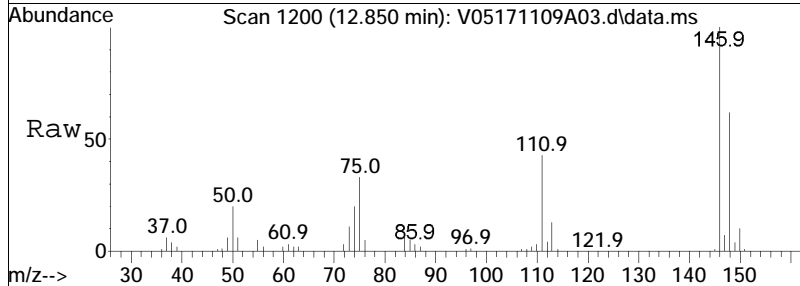
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.1	33.6	50.4
148	63.7	51.3	76.9

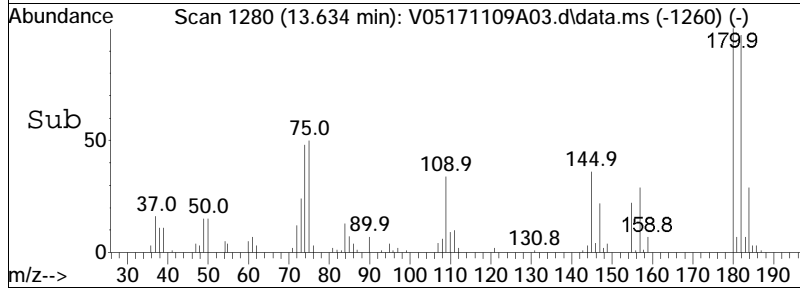
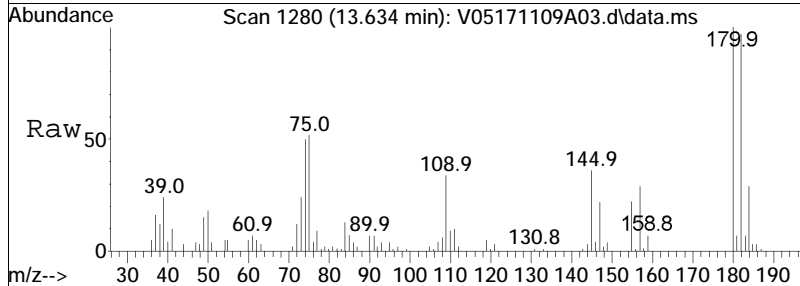
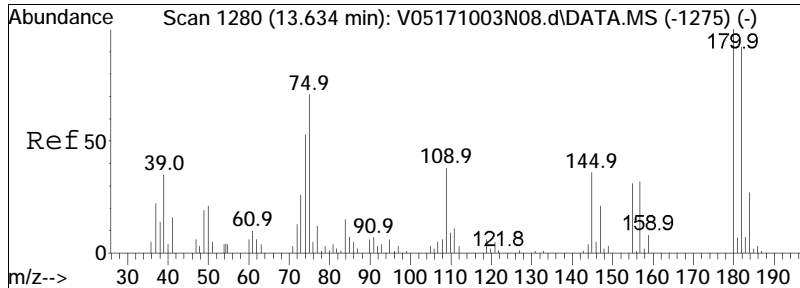




#104
 1,2-Dichlorobenzene
 Concen: 10.71 ug/L
 RT: 12.850 min Scan# 1200
 Delta R.T. -0.010 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

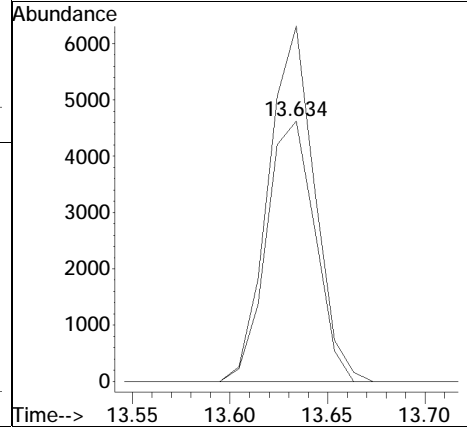
Tgt Ion	Resp	Lower	Upper
146	100		
111	41.9	28.3	58.9
148	63.9	41.9	87.1

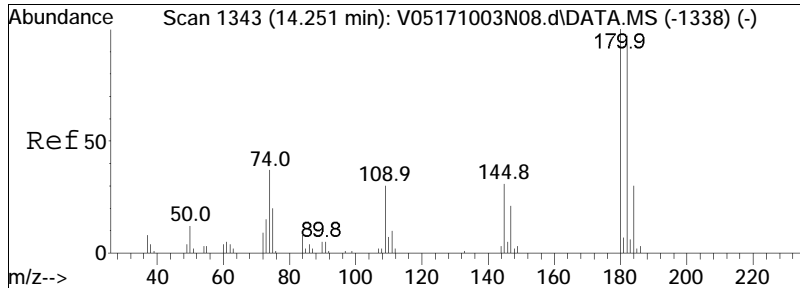




#106
 1,2-Dibromo-3-chloropropane
 Concen: 8.44 ug/L
 RT: 13.634 min Scan# 1280
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

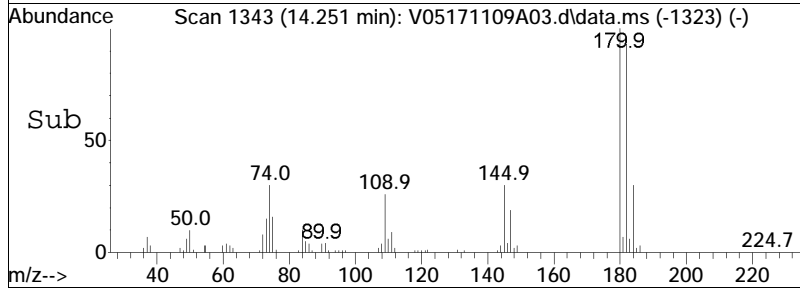
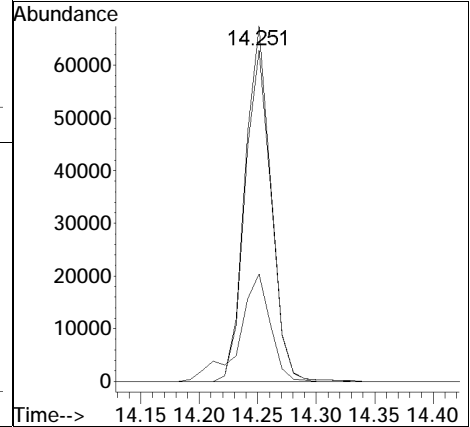
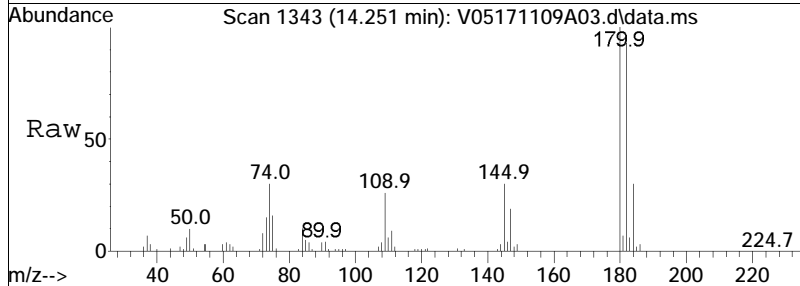
Tgt Ion: 155 Resp: 8004
 Ion Ratio Lower Upper
 155 100
 157 129.8 96.6 145.0

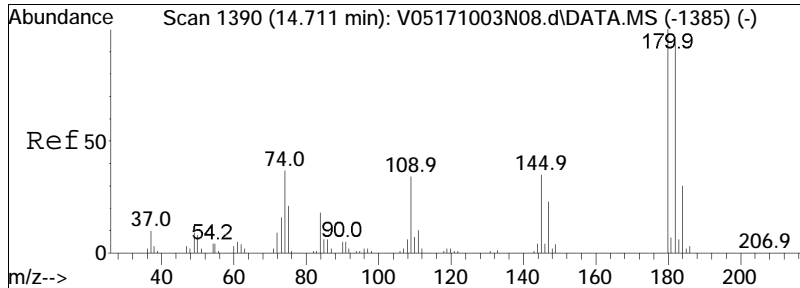




#109
 1,2,4-Trichlorobenzene
 Concen: 10.11 ug/L
 RT: 14.251 min Scan# 1343
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

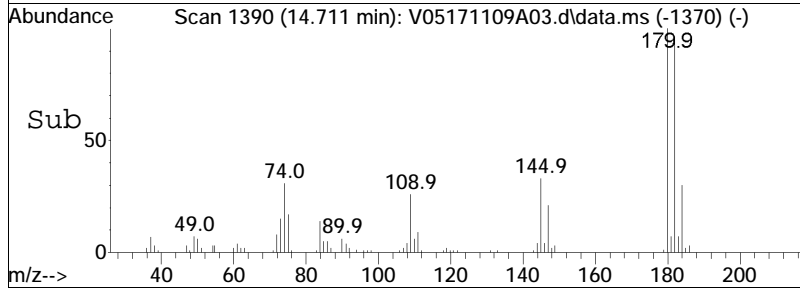
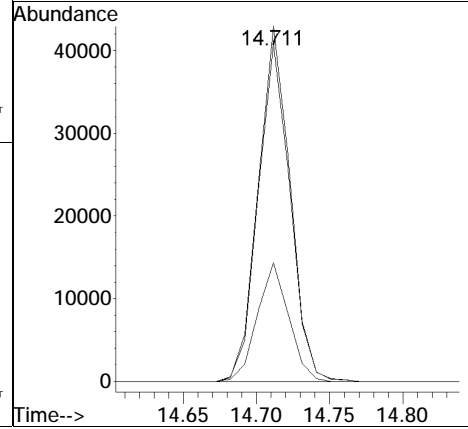
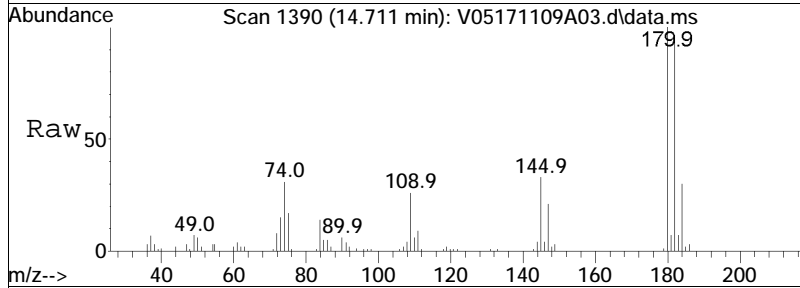
Tgt Ion	Resp	Lower	Upper
180	104378		
180	100		
182	94.3	76.3	114.5
145	36.1	31.0	46.4





#111
 1,2,3-Trichlorobenzene
 Concen: 10.86 ug/L
 RT: 14.711 min Scan# 1390
 Delta R.T. -0.000 min
 Lab File: V05171109A03.d
 Acq: 9 Nov 2017 8:34

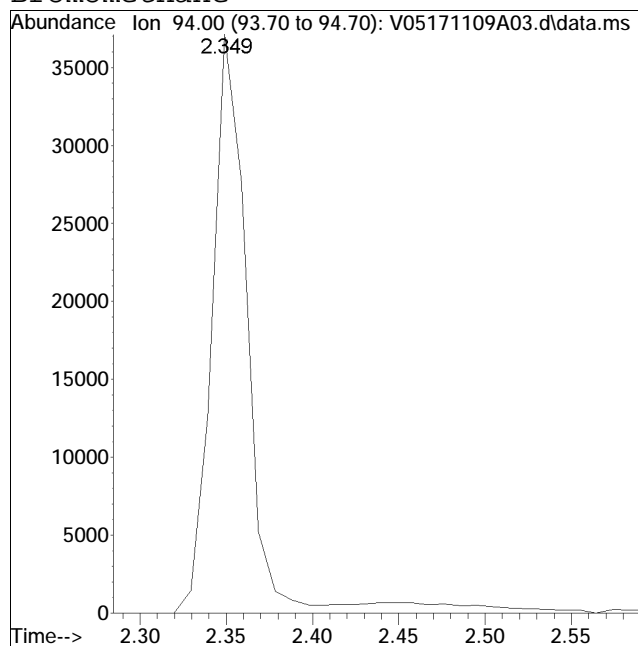
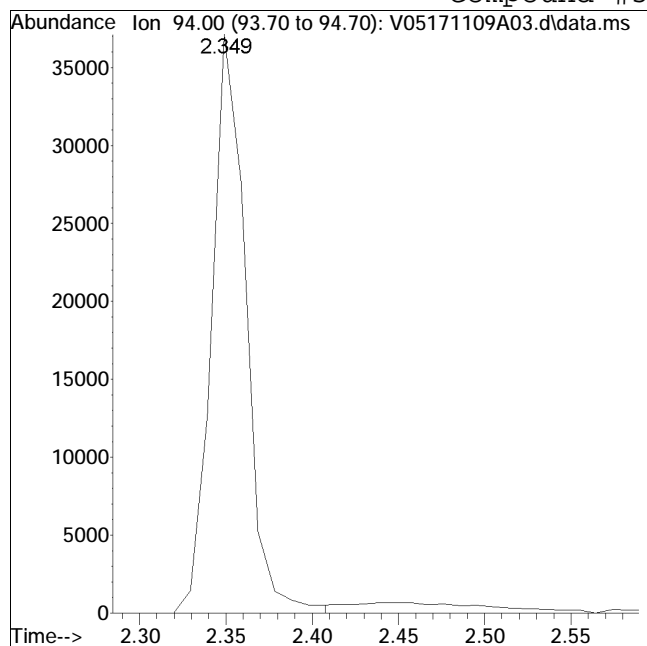
Tgt Ion	Resp	Lower	Upper
180	100		
182	95.2	76.2	114.2
145	33.0	28.2	42.2



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171109A03.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 8:34 Instrument : VOA 105
Sample : WG1061312-11,31,10,10 Quant Date : 11/9/2017 9:19 am

Compound #5: Bromomethane



Original Peak Response = 51278

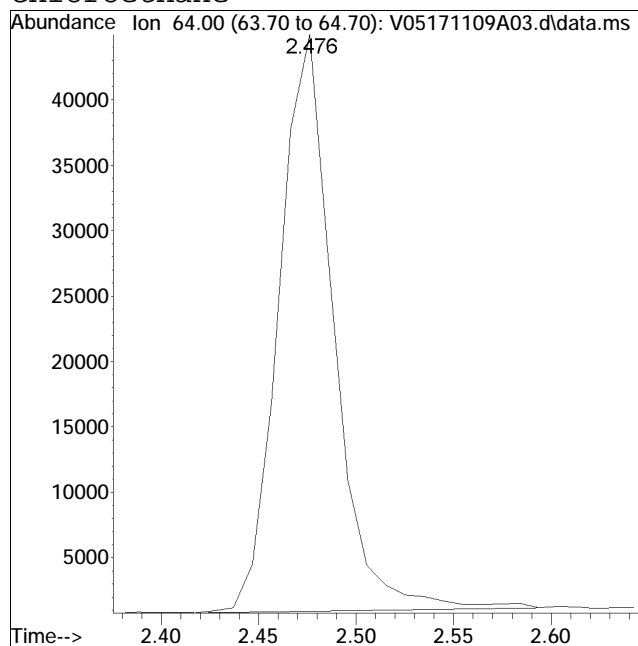
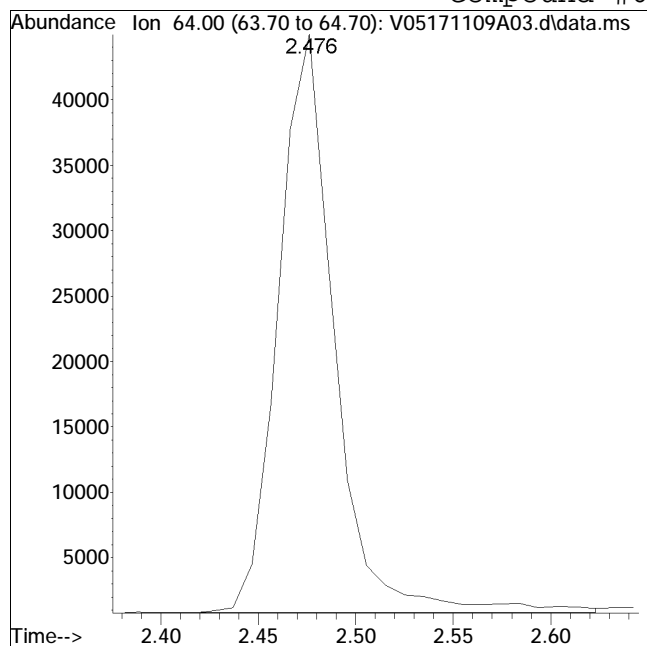
Manual Peak Response = 55283 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171109A03.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 8:34 Instrument : VOA 105
Sample : WG1061312-11,31,10,10 Quant Date : 11/9/2017 9:19 am

Compound #6: Chloroethane



Original Peak Response = 88882

Manual Peak Response = 86408 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P24.d
 Acq On : 9 Nov 2017 6:30 am
 Operator : VOA105:PD
 Sample : WG1061312-6,31,1,10,,a2 (Sig #1); 11740446-03MS,31,1,10,,a2 (Sig #
 2) Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 09 07:22:30 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.213	96	855536	10.000	ug/L	0.00
Standard Area 1 = 1085488			Recovery =	78.82%		
59) Chlorobenzene-d5	9.765	117	622041	10.000	ug/L	0.00
Standard Area 1 = 758413			Recovery =	82.02%		
79) 1,4-Dichlorobenzene-d4	12.419	152	310372	10.000	ug/L	0.00
Standard Area 1 = 355962			Recovery =	87.19%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.401	113	211486	8.682	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	86.82%		
43) 1,2-Dichloroethane-d4	5.939	65	255424	9.526	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.26%		
60) Toluene-d8	7.905	98	800140	10.034	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.34%		
83) 4-Bromofluorobenzene	11.224	95	299186	11.478	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	114.78%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.743	85	163097	12.114	ug/L	99
3) Chloromethane	1.938	50	193255	15.970	ug/L	97
4) Vinyl chloride	2.026	62	303050	27.025	ug/L	93
5) Bromomethane	2.349	94	36686	6.128	ug/L	99
6) Chloroethane	2.476	64	106618M1	16.290	ug/L	
7) Trichlorofluoromethane	2.613	101	264047	10.556	ug/L	99
10) 1,1-Dichloroethene	3.122	96	152316	12.706	ug/L	98
11) Carbon disulfide	3.151	76	421643	13.332	ug/L	100
12) Freon-113	3.151	101	154553	11.497	ug/L	96
15) Methylene chloride	3.689	84	168788	12.326	ug/L	99
17) Acetone	3.748	43	25110	11.857	ug/L	91
18) trans-1,2-Dichloroethene	3.846	96	179981	12.685	ug/L	99
19) Methyl acetate	3.855	43	57366	13.337	ug/L	98
20) Methyl tert-butyl ether	3.934	73	278913	12.200	ug/L	97
23) 1,1-Dichloroethane	4.442	63	346192	13.471	ug/L	98
28) cis-1,2-Dichloroethene	4.961	96	1590479	103.270	ug/L	99
30) Bromochloromethane	5.156	128	74807	10.674	ug/L	96
31) Cyclohexane	5.146	56	315373	14.062	ug/L	97
32) Chloroform	5.225	83	319617	11.324	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P24.d
 Acq On : 9 Nov 2017 6:30 am
 Operator : VOA105:PD
 Sample : WG1061312-6,31,1,10,,a2 (Sig #1); 11740446-03MS,31,1,10,,a2 (Sig #
 2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 09 07:22:30 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	5.352	117	241975	9.859	ug/L	99
37) 1,1,1-Trichloroethane	5.420	97	293260	10.755	ug/L	99
39) 2-Butanone	5.528	43	34783	13.879	ug/L	99
41) Benzene	5.792	78	701163	12.821	ug/L	99
44) 1,2-Dichloroethane	6.007	62	208001	11.167	ug/L	100
47) Methyl cyclohexane	6.369	83	253194	12.831	ug/L	97
48) Trichloroethene	6.389	95	1359542	79.329	ug/L	96
51) 1,2-Dichloropropane	6.946	63	174990	13.981	ug/L	96
54) Bromodichloromethane	7.015	83	216642	10.924	ug/L	99
57) 1,4-Dioxane	7.230	88	28749	565.571	ug/L	98
58) cis-1,3-Dichloropropene	7.709	75	208515	9.559	ug/L	96
61) Toluene	7.963	92	446508	12.604	ug/L	98
62) 4-Methyl-2-pentanone	8.403	58	22778	12.756	ug/L	92
63) Tetrachloroethene	8.413	166	190622	9.735	ug/L	93
65) trans-1,3-Dichloropropene	8.462	75	167700	9.918	ug/L	96
68) 1,1,2-Trichloroethane	8.648	83	101359	12.989	ug/L	99
69) Chlorodibromomethane	8.854	129	118178	10.450	ug/L	98
71) 1,2-Dibromoethane	9.138	107	95306	11.911	ug/L	99
72) 2-Hexanone	9.422	43	37357	10.521	ug/L	94
73) Chlorobenzene	9.784	112	480042	11.827	ug/L	96
74) Ethylbenzene	9.814	91	863892	12.715	ug/L	100
76) p/m Xylene	10.000	106	646134	25.143	ug/L	98
77) o Xylene	10.529	106	599202	24.103	ug/L	98
78) Styrene	10.597	104	960619	23.978	ug/L	95
80) Bromoform	10.627	173	56797	10.123	ug/L	97
82) Isopropylbenzene	10.901	105	800929	12.557	ug/L	100
87) 1,1,2,2-Tetrachloroethane	11.469	83	100299	14.276	ug/L	99
100) 1,3-Dichlorobenzene	12.341	146	327630	11.622	ug/L	99
101) 1,4-Dichlorobenzene	12.429	146	340695	11.527	ug/L	98
104) 1,2-Dichlorobenzene	12.850	146	274031	11.804	ug/L	97
106) 1,2-Dibromo-3-chloropr...	13.634	155	7926	8.727	ug/L	90
109) 1,2,4-Trichlorobenzene	14.251	180	104203	10.564	ug/L	98
111) 1,2,3-Trichlorobenzene	14.712	180	54256	9.502	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P24.d
 Acq On : 9 Nov 2017 6:30 am
 Operator : VOA105:PD
 Sample : WG1061312-6,31,1,10,,a2 (Sig #1); 11740446-03MS,31,1,10,,a2 (Sig #

2)

Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 09 07:22:30 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

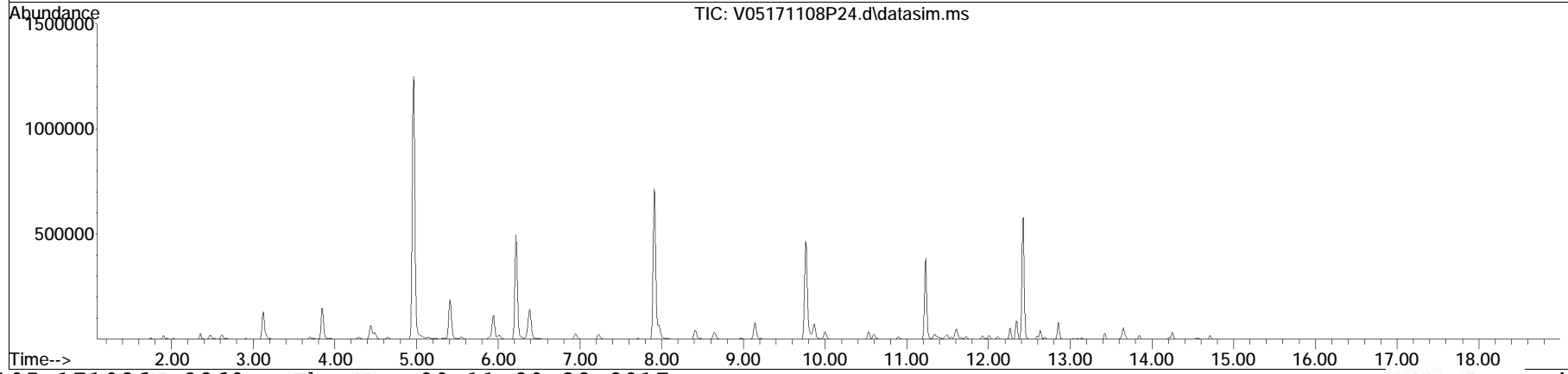
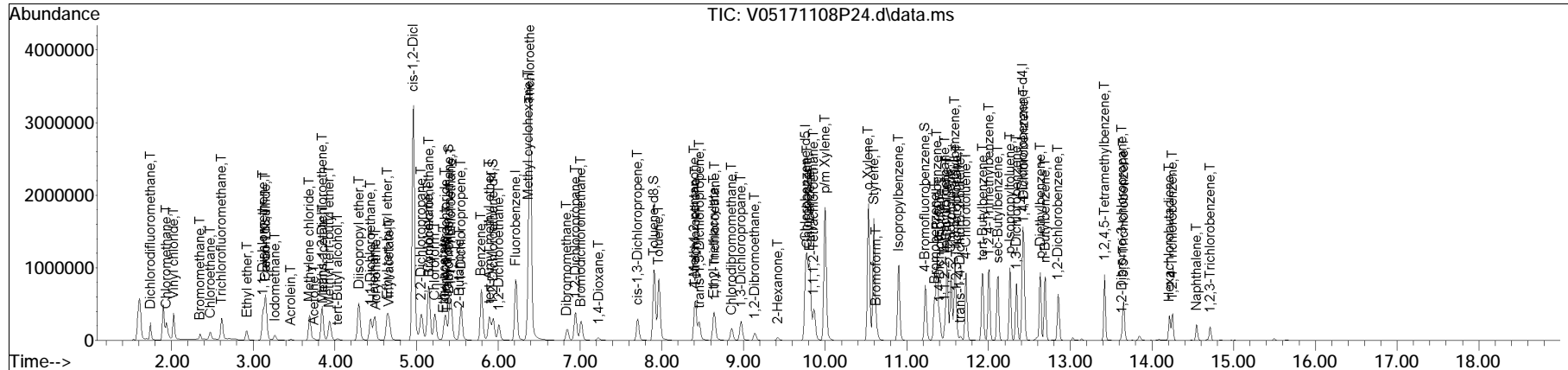
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

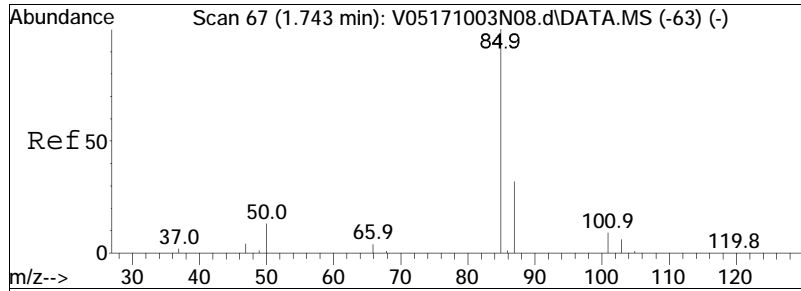
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P24.d
 Acq On : 9 Nov 2017 6:30 am
 Operator : VOA105:PD
 Sample : WG1061312-6,31,1,10,,a2 (Sig #1); 11740446-03MS,31,1,10,,a2 (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 09 07:22:30 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

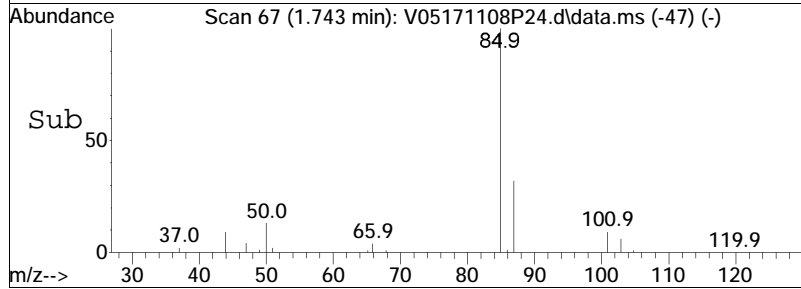
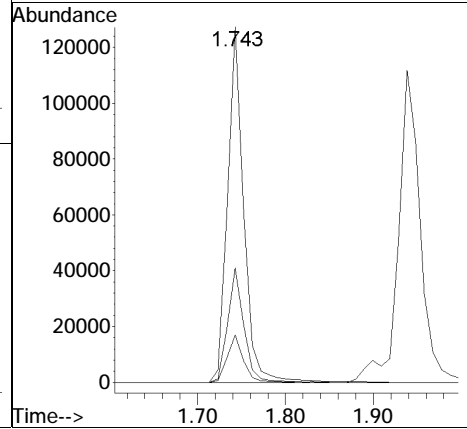
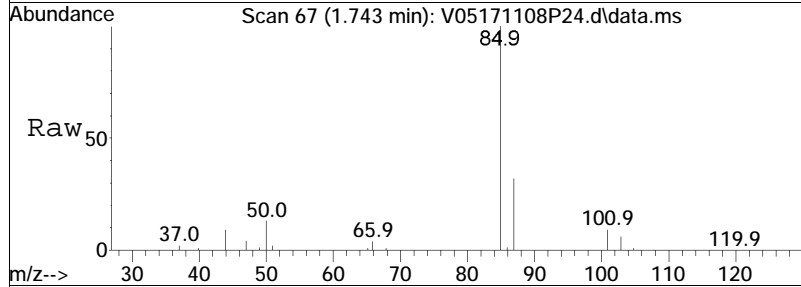
Sub List : 8260-Curve - Megamix plus Diox71108P\V05171108P01.d•

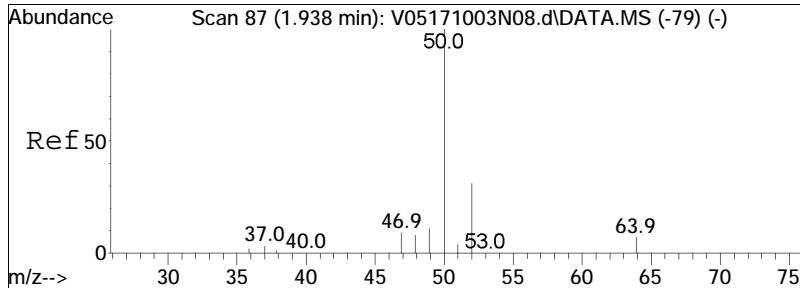




#2
 Dichlorodifluoromethane
 Concen: 12.11 ug/L
 RT: 1.743 min Scan# 67
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

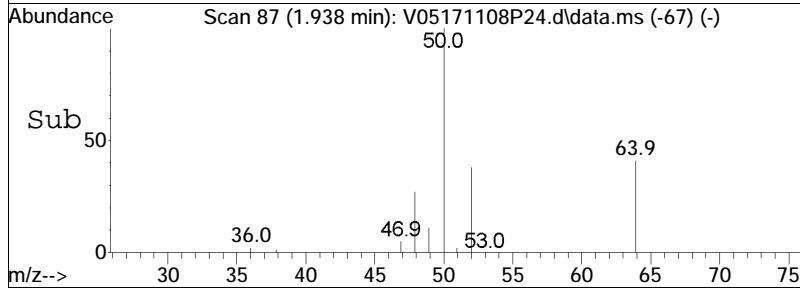
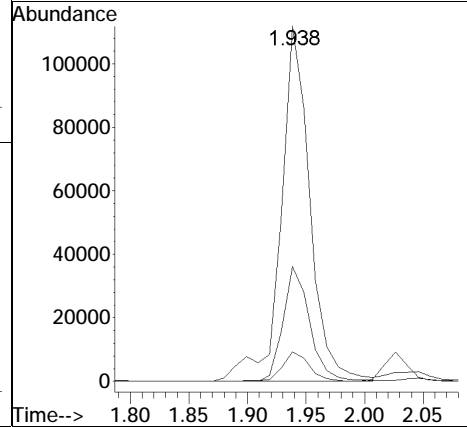
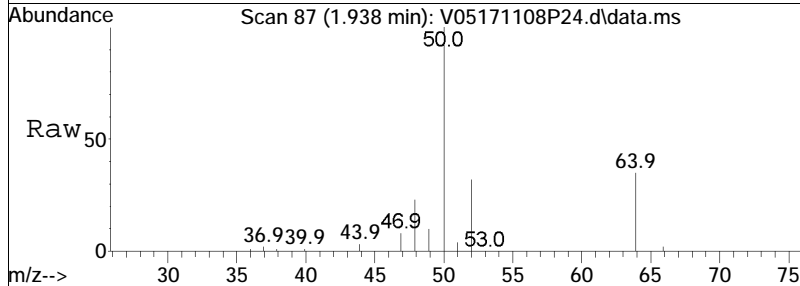
Tgt Ion	Resp	Lower	Upper
85	163097		
85	100		
87	32.3	21.3	44.1
50	13.3	8.7	18.1

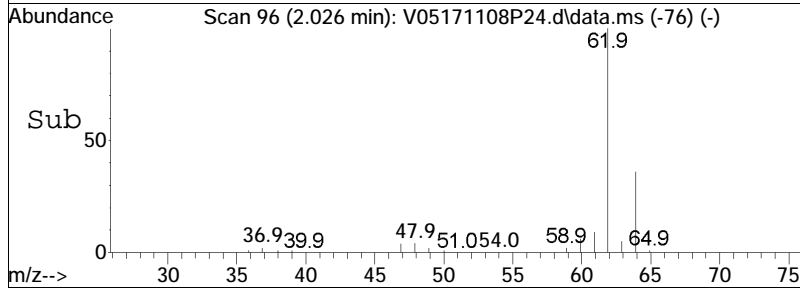
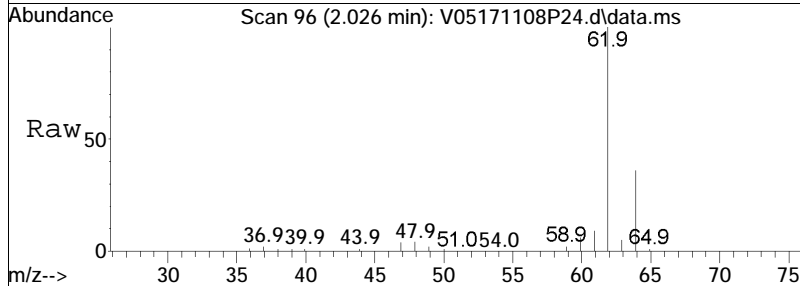
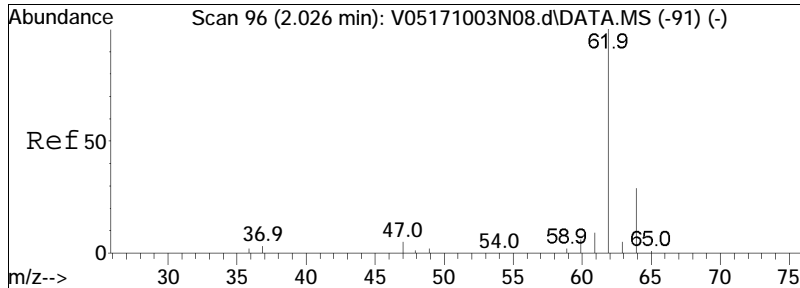




#3
 Chloromethane
 Concen: 15.97 ug/L
 RT: 1.938 min Scan# 87
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

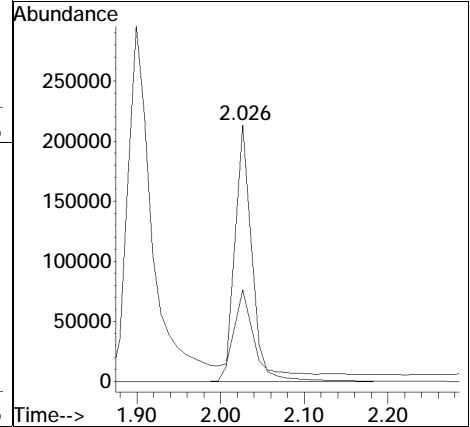
Tgt Ion	Resp	Lower	Upper
50	193255		
52	29.7	11.4	51.4
47	7.7	0.0	28.0

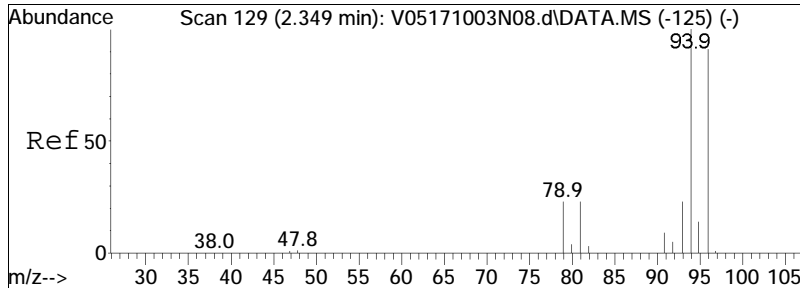




#4
 Vinyl chloride
 Concen: 27.02 ug/L
 RT: 2.026 min Scan# 96
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

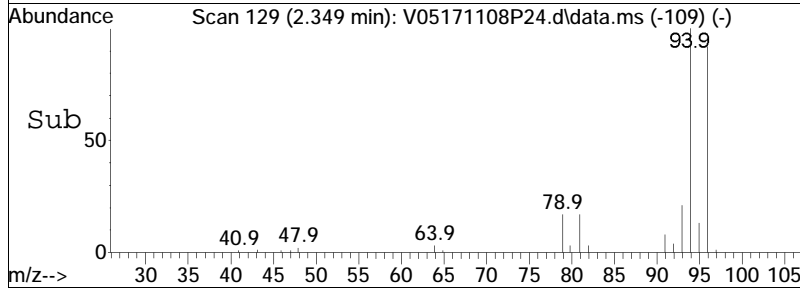
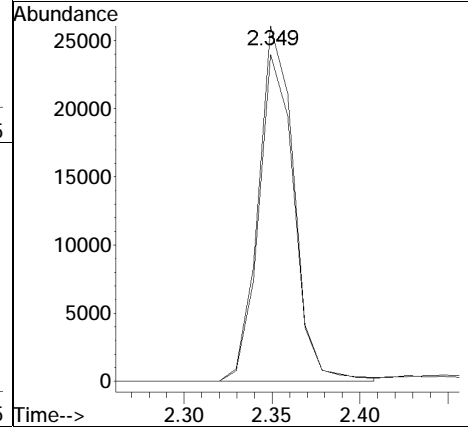
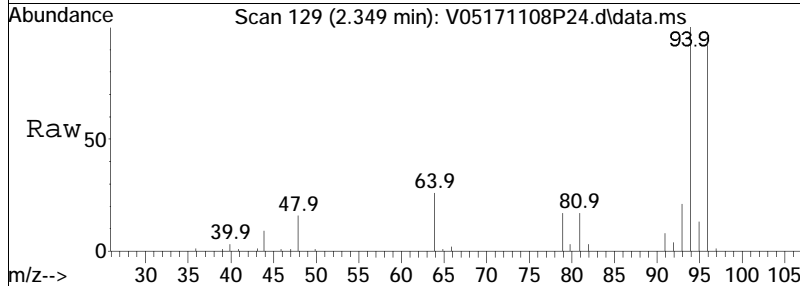
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
62	100		
64	37.9	13.8	53.8

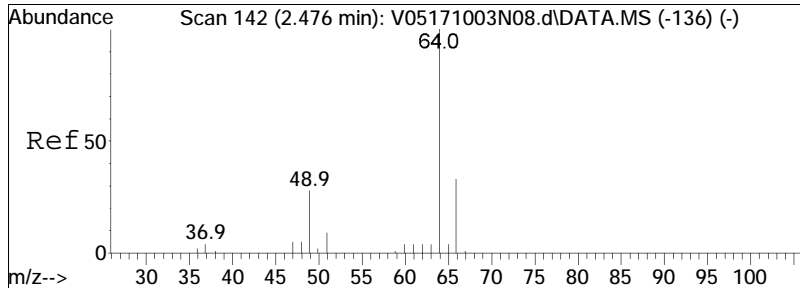




#5
 Bromomethane
 Concen: 6.13 ug/L
 RT: 2.349 min Scan# 129
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

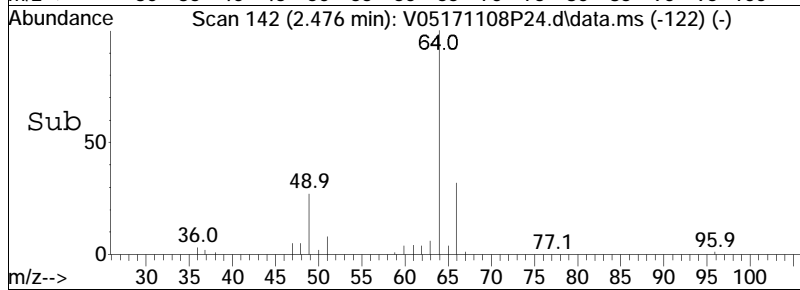
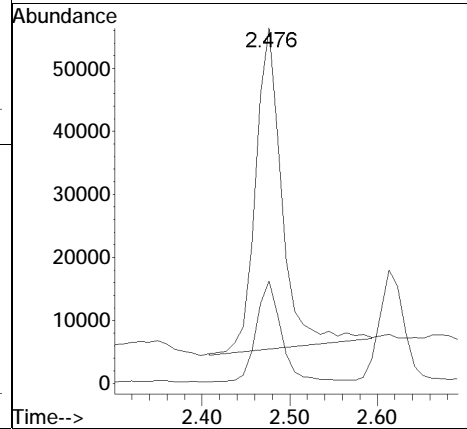
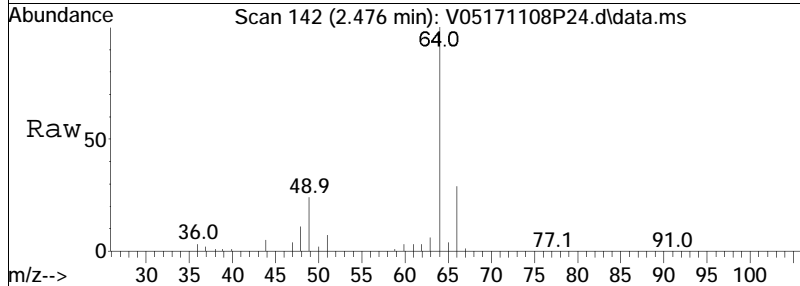
Tgt Ion: 94 Resp: 36686
 Ion Ratio Lower Upper
 94 100
 96 91.9 73.1 113.1

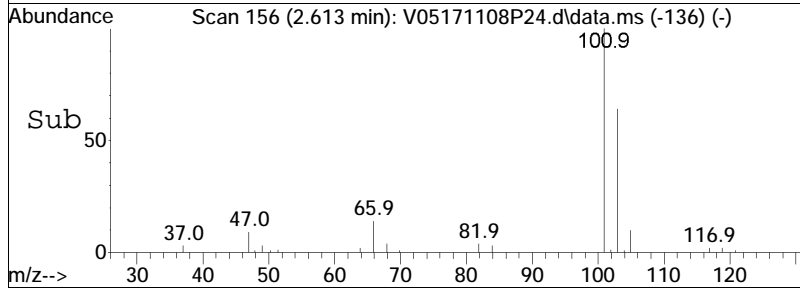
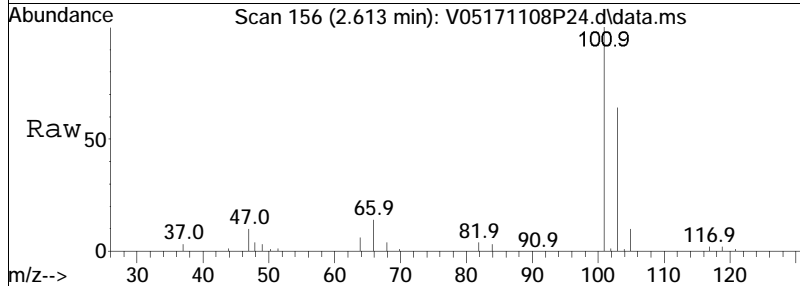
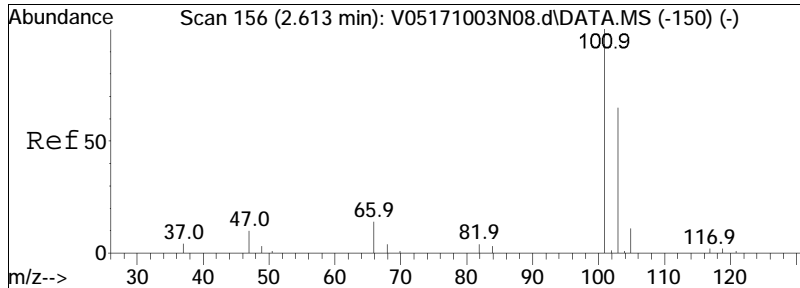




#6
 Chloroethane
 Concen: 16.29 ug/L M1
 RT: 2.476 min Scan# 142
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

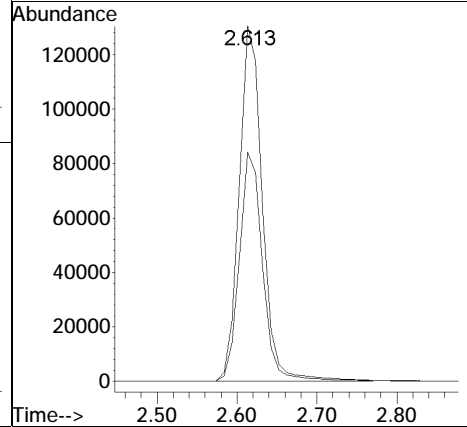
Tgt Ion	Resp	Lower	Upper
64	106618		
66	30.0	13.7	53.7

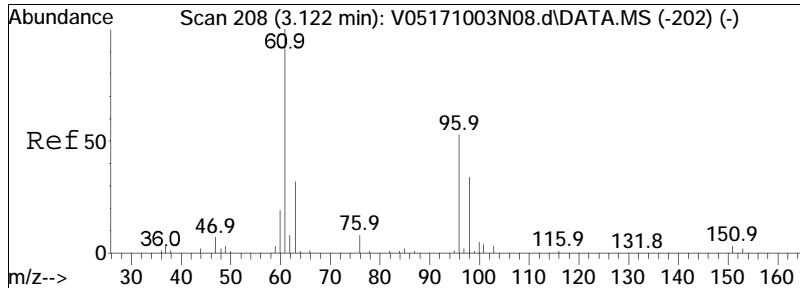




#7
 Trichlorofluoromethane
 Concen: 10.56 ug/L
 RT: 2.613 min Scan# 156
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

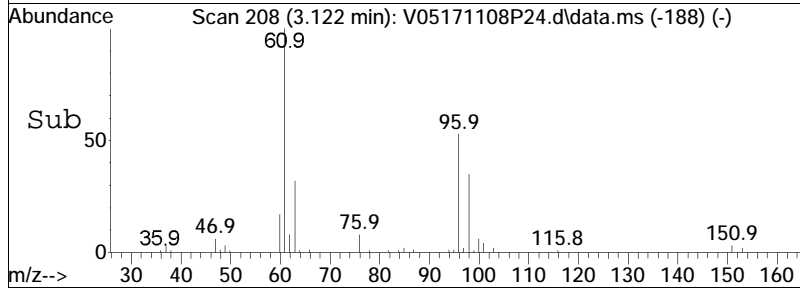
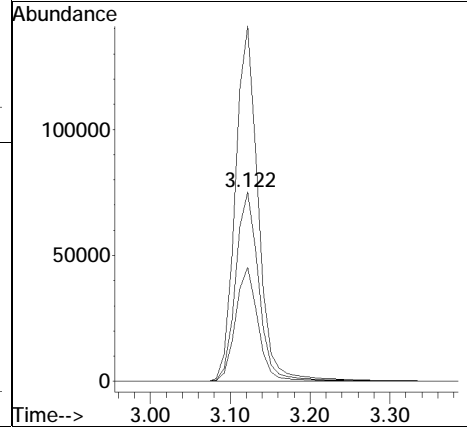
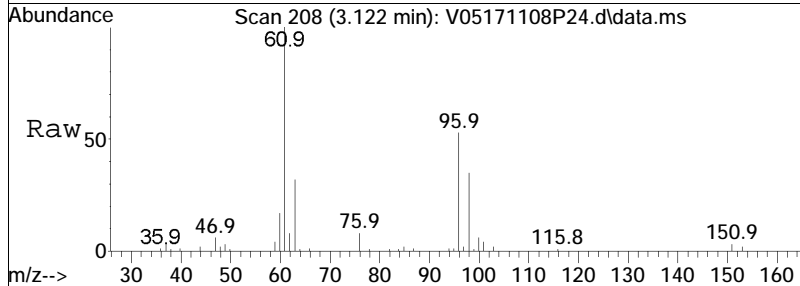
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.8	52.6	79.0

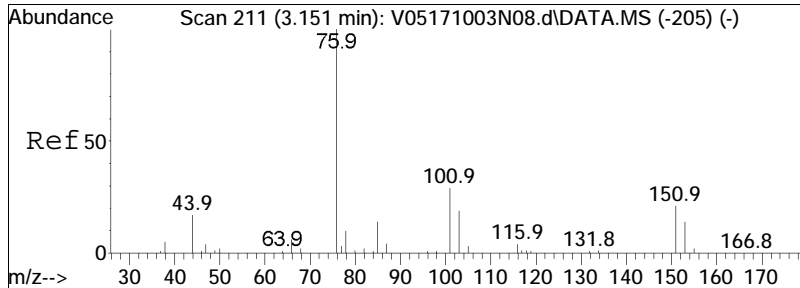




#10
 1,1-Dichloroethene
 Concen: 12.71 ug/L
 RT: 3.122 min Scan# 208
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

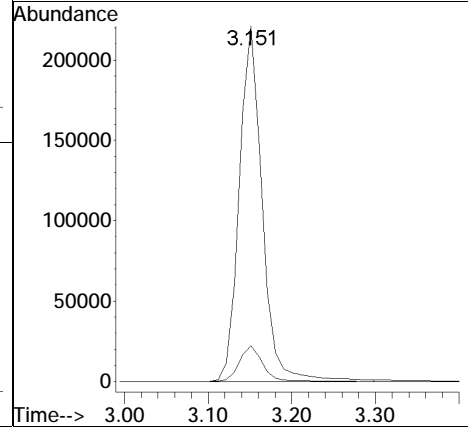
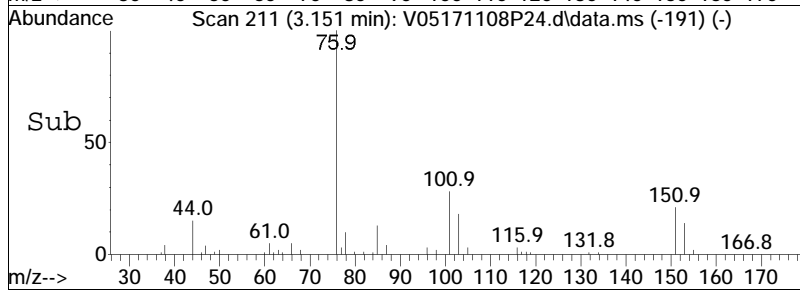
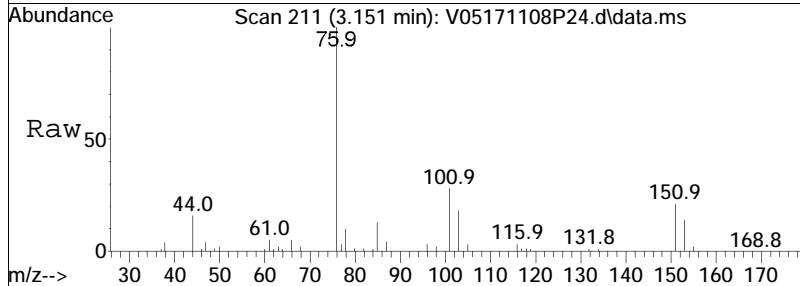
Tgt Ion	Resp	Lower	Upper
96	152316		
96	100		
61	184.9	151.0	226.4
63	58.8	47.7	71.5

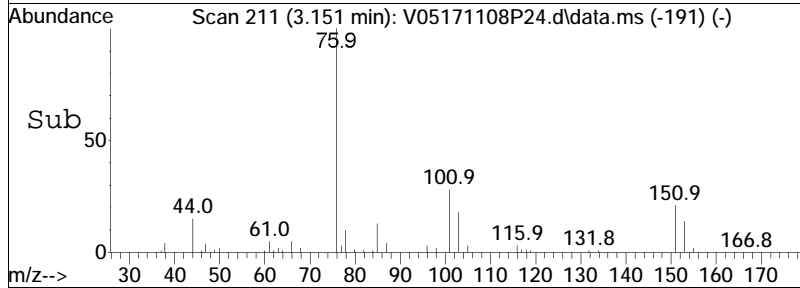
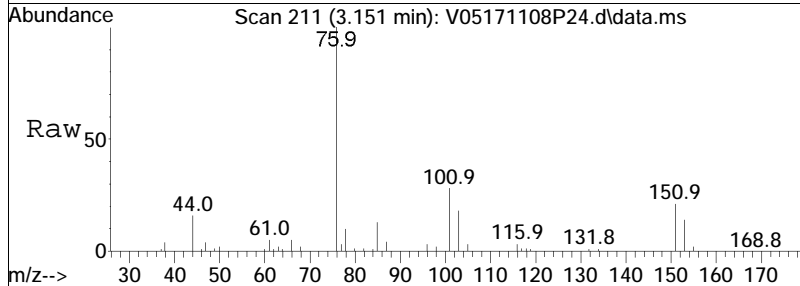
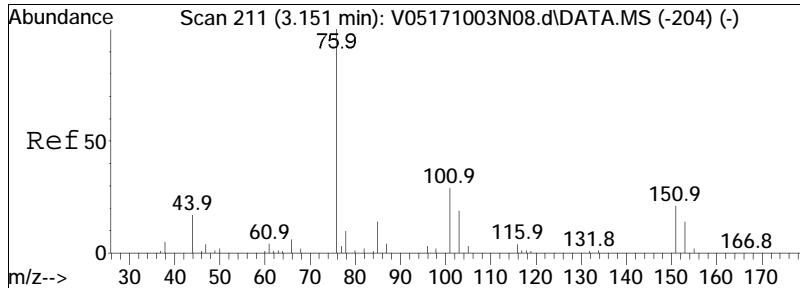




#11
 Carbon disulfide
 Concen: 13.33 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

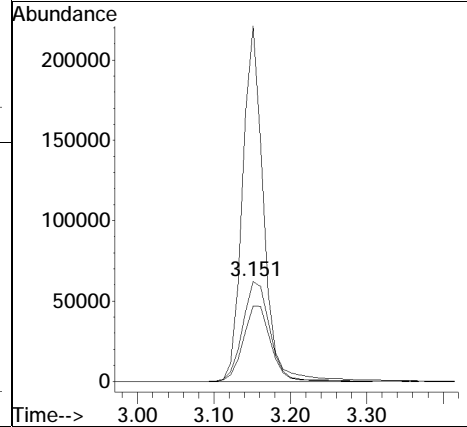
Tgt Ion: 76 Resp: 421643
 Ion Ratio Lower Upper
 76 100
 78 10.2 6.7 13.9

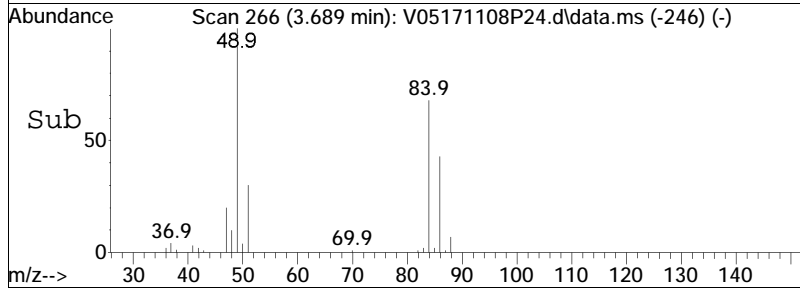
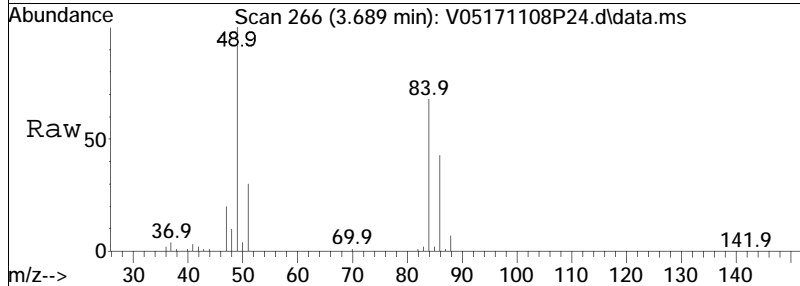
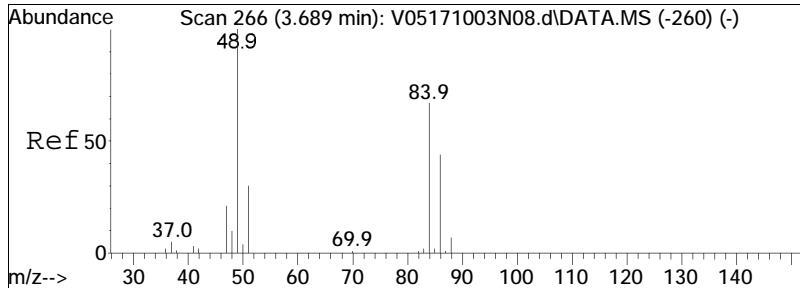




#12
 Freon-113
 Concen: 11.50 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

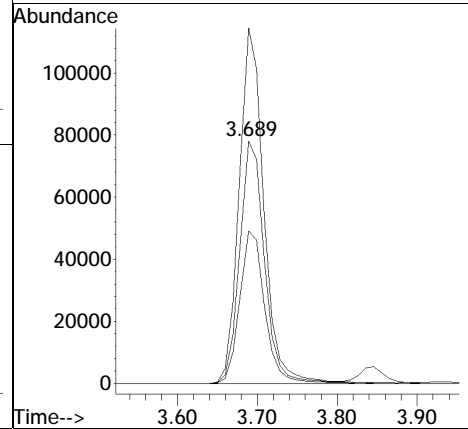
Tgt Ion	Resp	Lower	Upper
101	154553		
101	100		
151	76.6	59.2	88.8
76	272.8	213.0	319.4

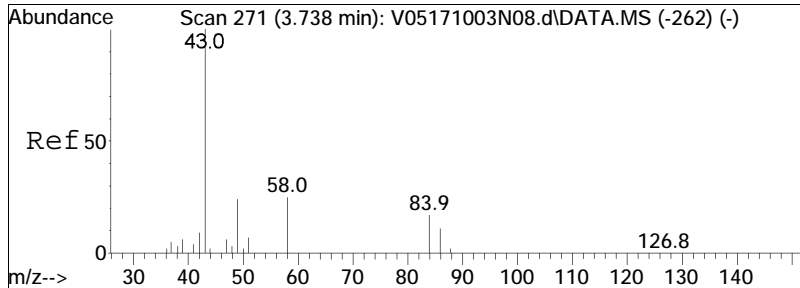




#15
 Methylene chloride
 Concen: 12.33 ug/L
 RT: 3.689 min Scan# 266
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

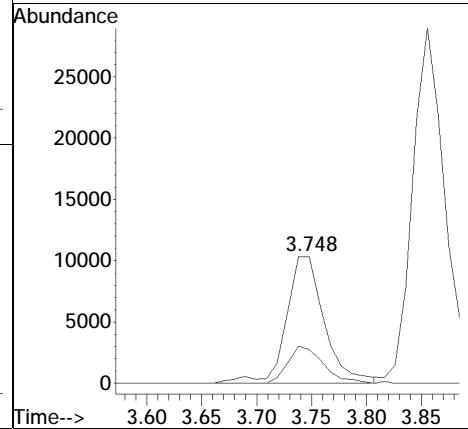
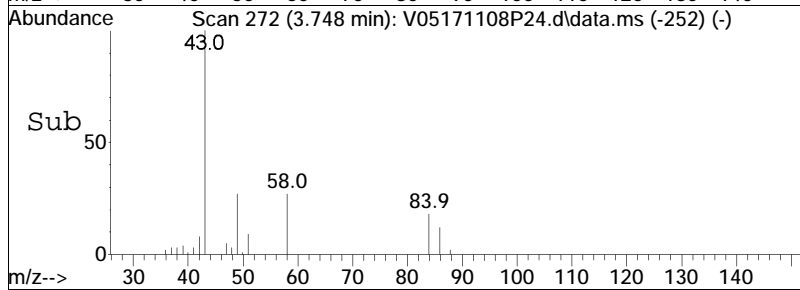
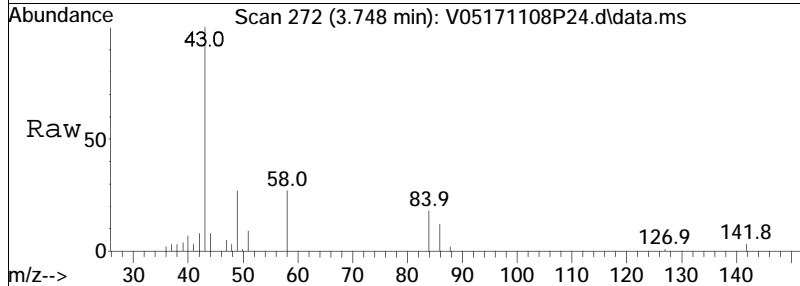
Tgt Ion:	84	Resp:	168788
Ion Ratio	Lower	Upper	
84	100		
86	63.7	41.9	86.9
49	145.0	95.1	197.5

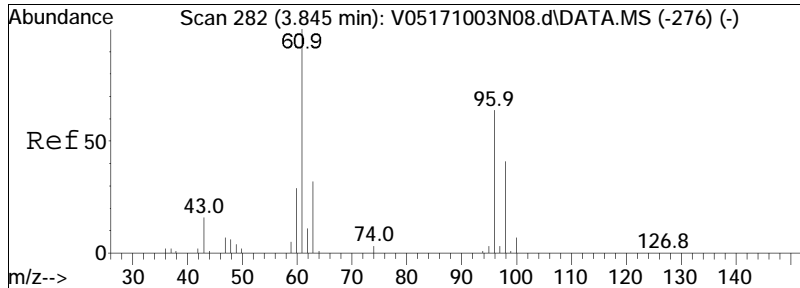




#17
 Acetone
 Concen: 11.86 ug/L
 RT: 3.748 min Scan# 272
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

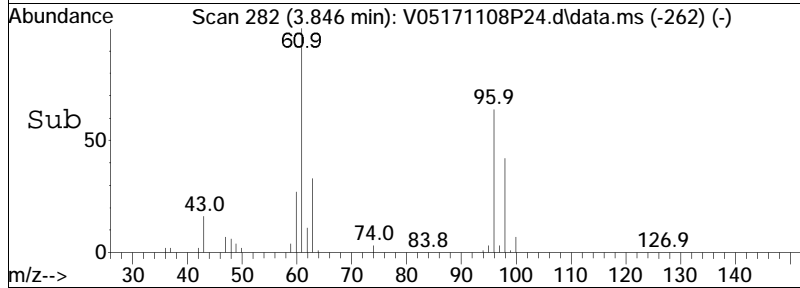
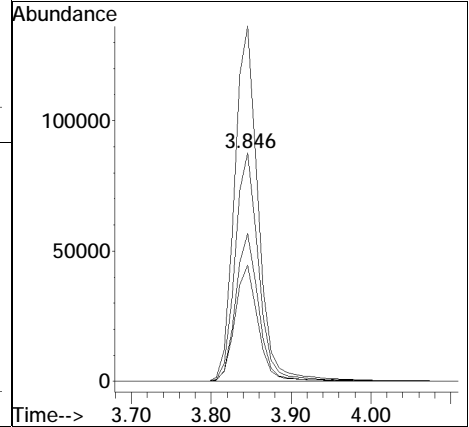
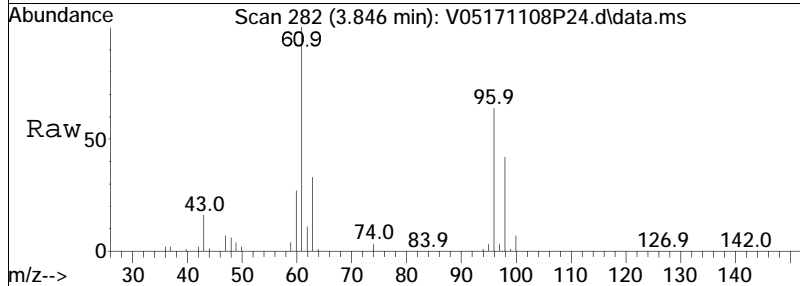
Tgt Ion: 43 Resp: 25110
 Ion Ratio Lower Upper
 43 100
 58 27.7 18.5 27.7

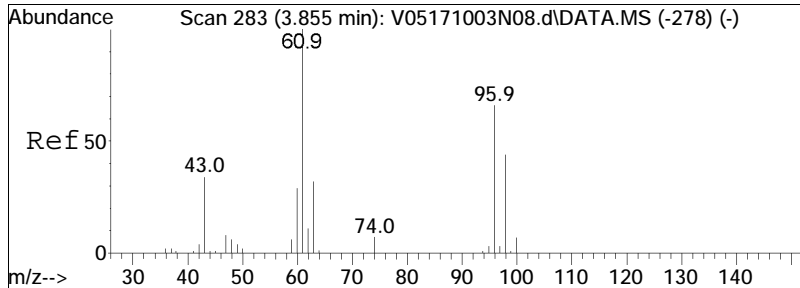




#18
 trans-1,2-Dichloroethene
 Concen: 12.69 ug/L
 RT: 3.846 min Scan# 282
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

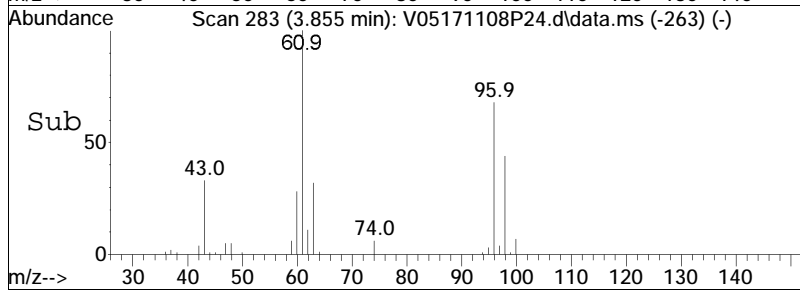
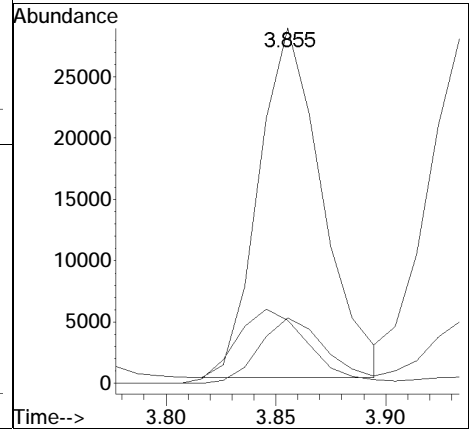
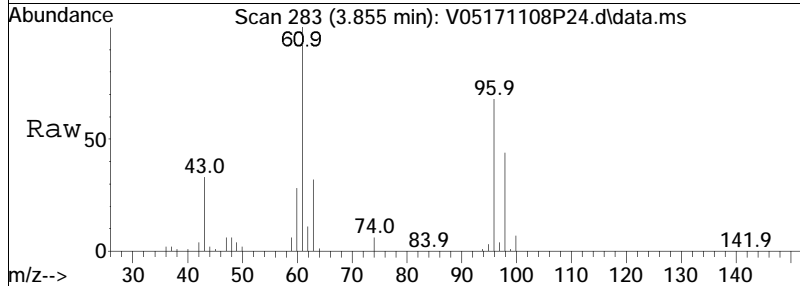
Tgt Ion	Resp	Lower	Upper
96	179981		
61	156.2	102.0	211.8
98	63.6	41.9	87.1
63	50.4	32.6	67.8

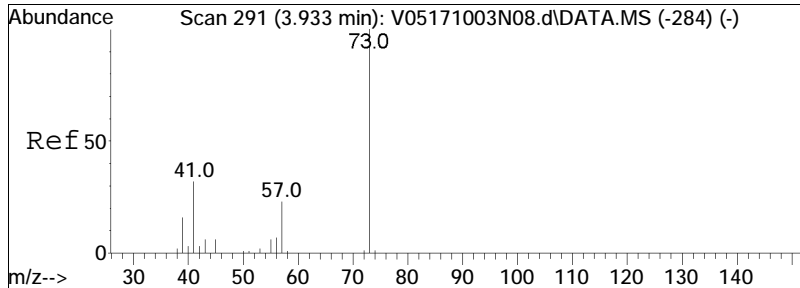




#19
 Methyl acetate
 Concen: 13.34 ug/L
 RT: 3.855 min Scan# 283
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

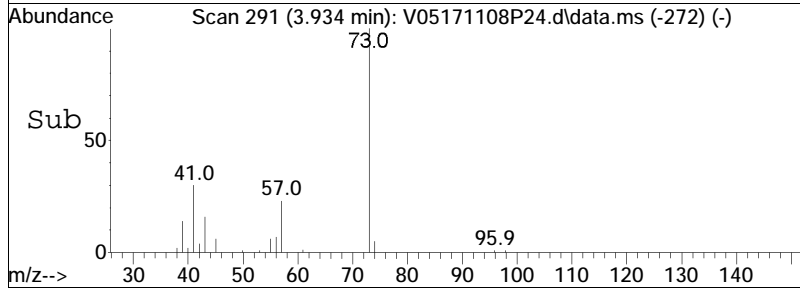
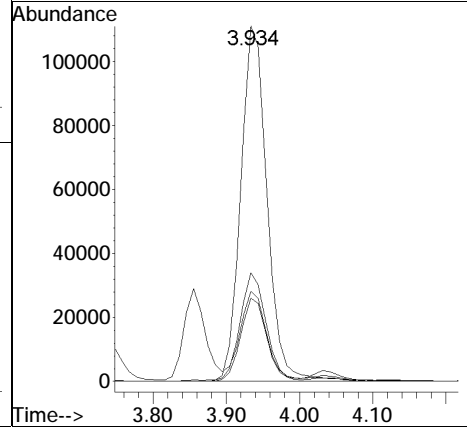
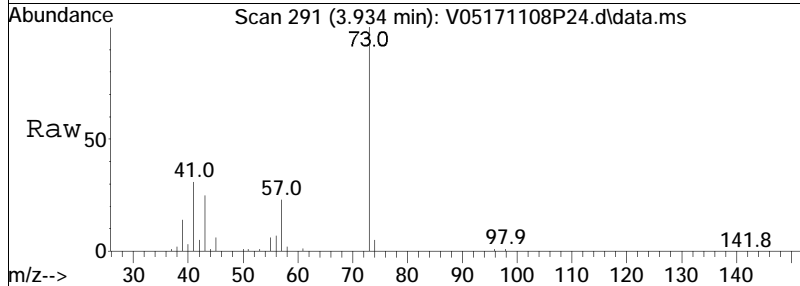
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
43	100		
74	19.7	15.3	22.9
59	24.2	18.6	28.0

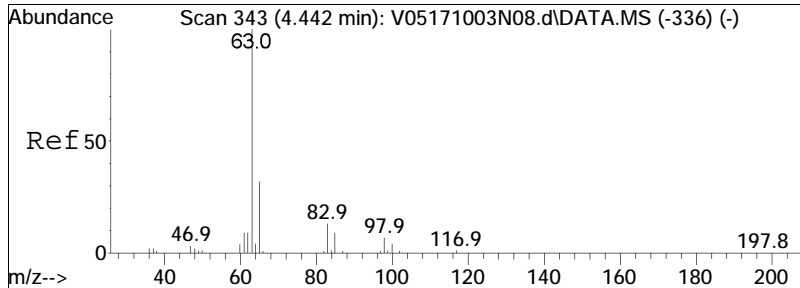




#20
 Methyl tert-butyl ether
 Concen: 12.20 ug/L
 RT: 3.934 min Scan# 291
 Delta R.T. -0.010 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

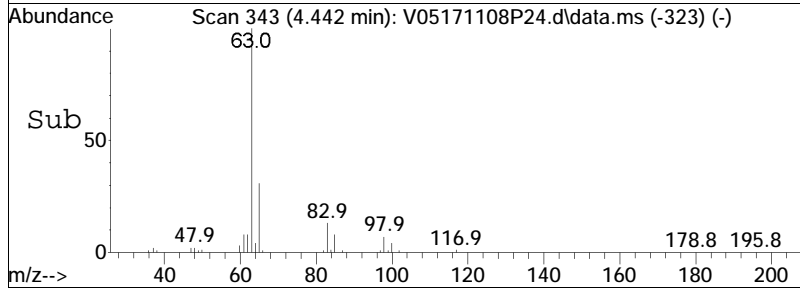
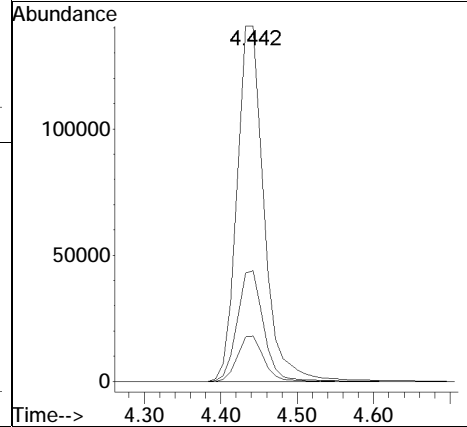
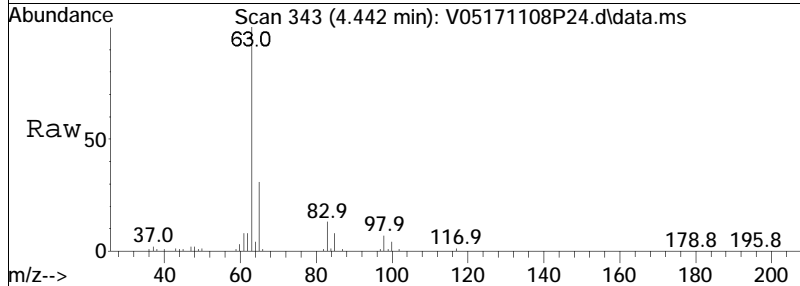
Tgt Ion	Resp	Lower	Upper
73	278913		
57	23.2	14.3	29.7
43	24.6	16.8	35.0
41	30.6	20.9	43.3

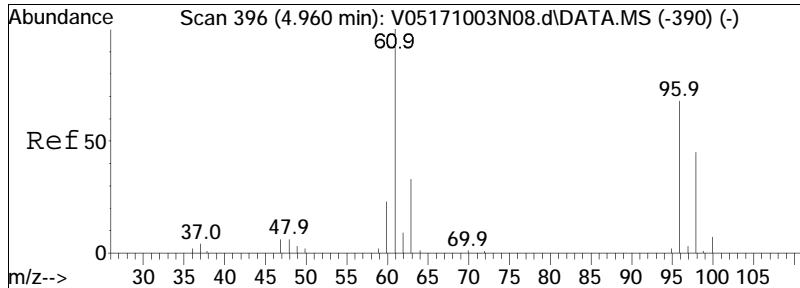




#23
 1,1-Dichloroethane
 Concen: 13.47 ug/L
 RT: 4.442 min Scan# 343
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

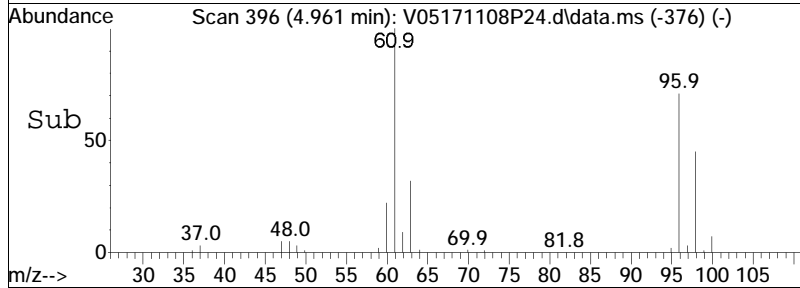
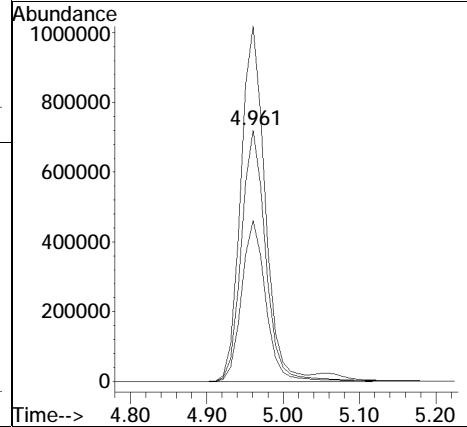
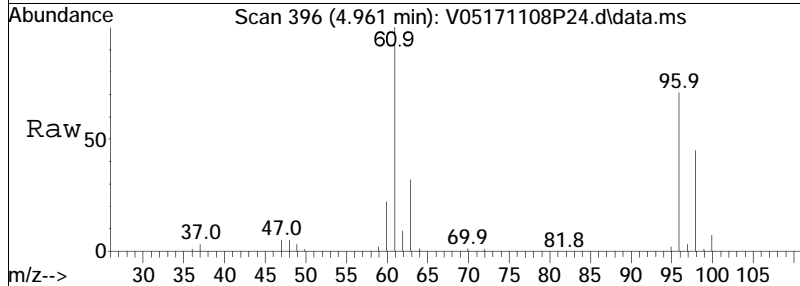
Tgt Ion	Resp	Lower	Upper
63	346192		
65	30.4	11.6	51.6
83	12.4	0.0	33.0

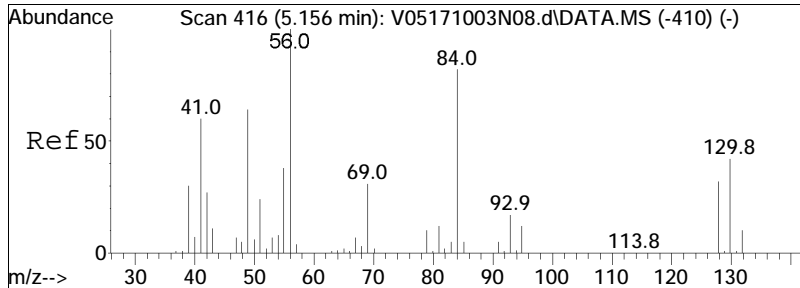




#28
 cis-1,2-Dichloroethene
 Concen: 103.27 ug/L
 RT: 4.961 min Scan# 396
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

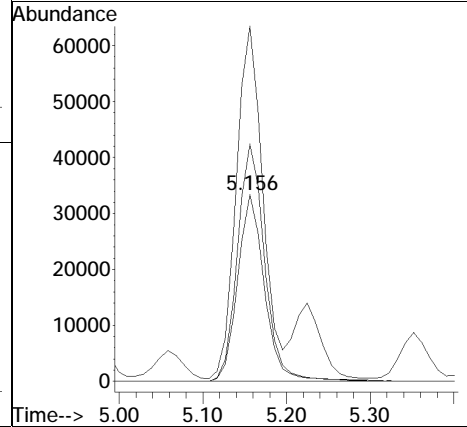
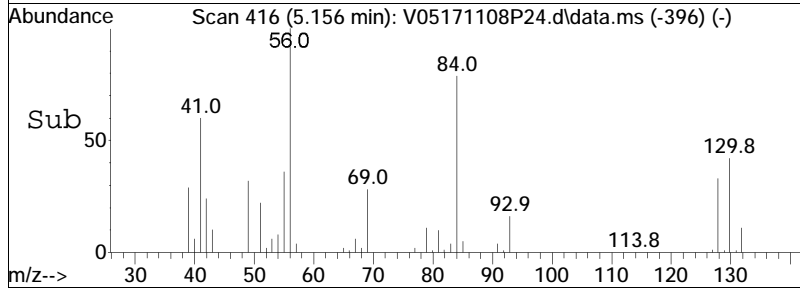
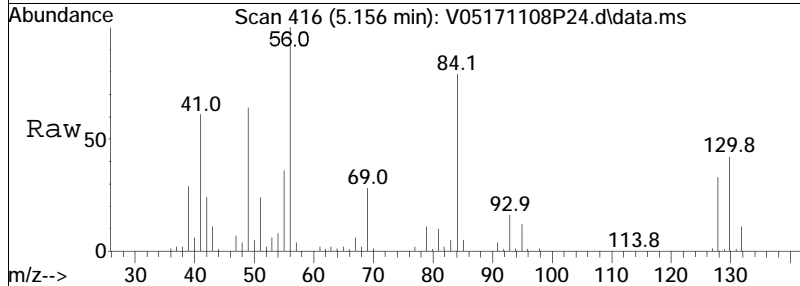
Tgt Ion	Resp	Lower	Upper
96	1590479		
96	100		
61	140.4	113.7	170.5
98	64.0	51.2	76.8

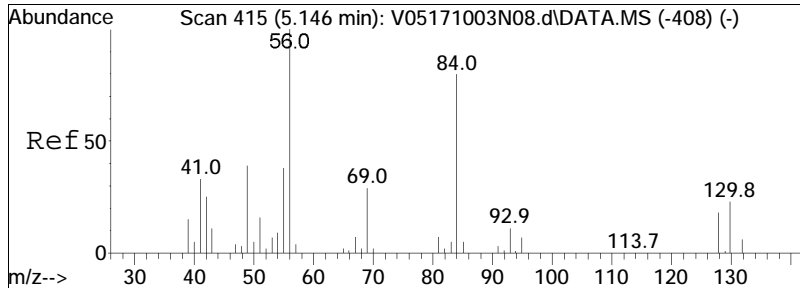




#30
 Bromochloromethane
 Concen: 10.67 ug/L
 RT: 5.156 min Scan# 416
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

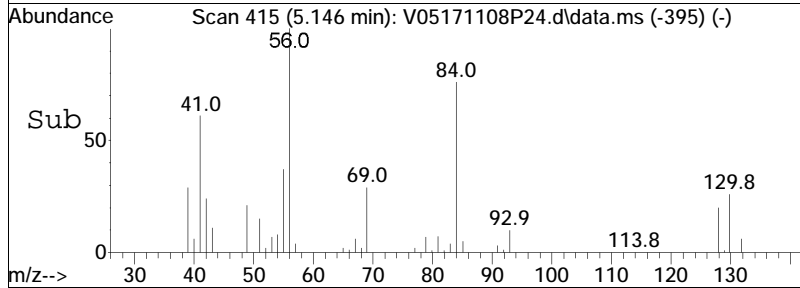
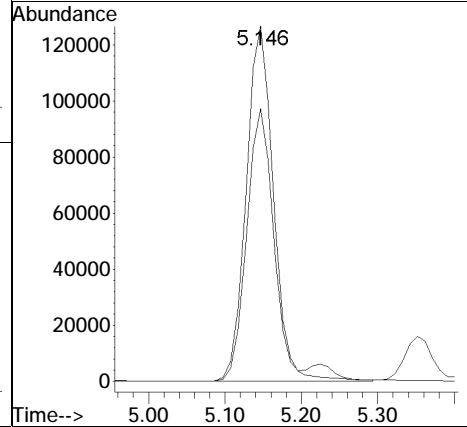
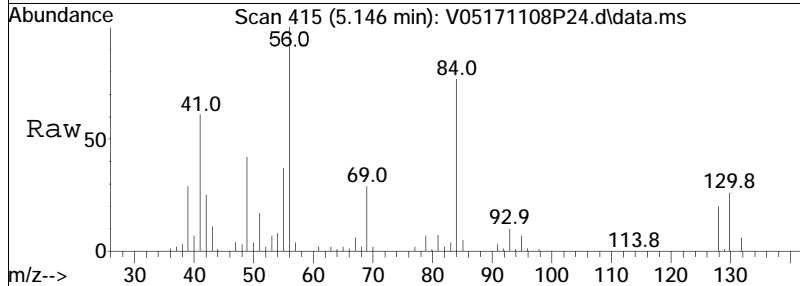
Tgt Ion	Resp	Lower	Upper
128	74807		
128	100		
49	184.7	155.4	233.0
130	128.9	101.9	152.9

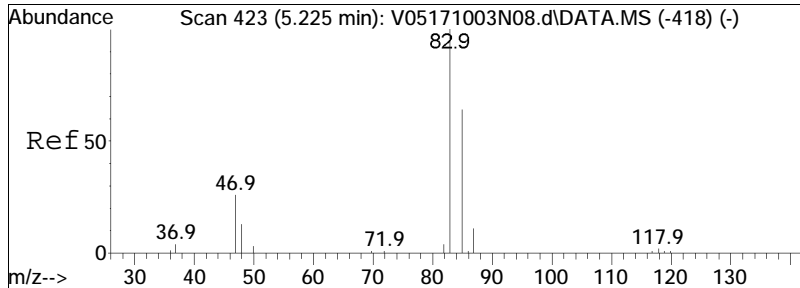




#31
 Cyclohexane
 Concen: 14.06 ug/L
 RT: 5.146 min Scan# 415
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

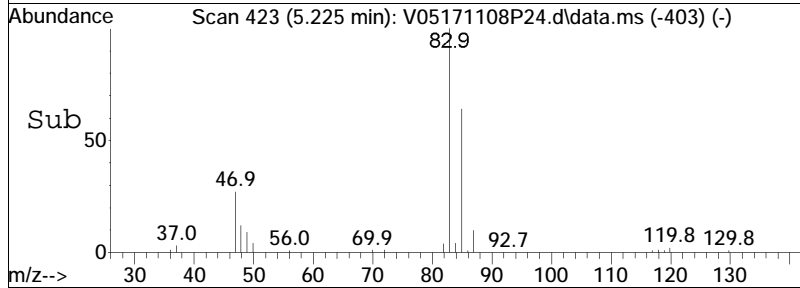
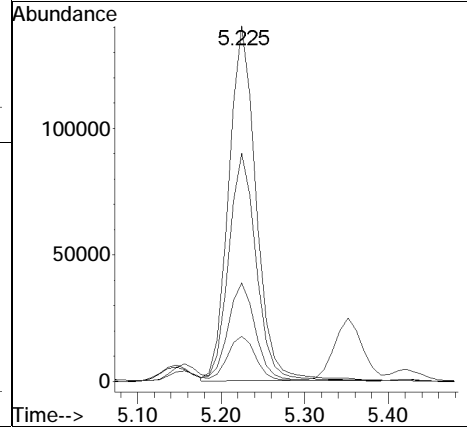
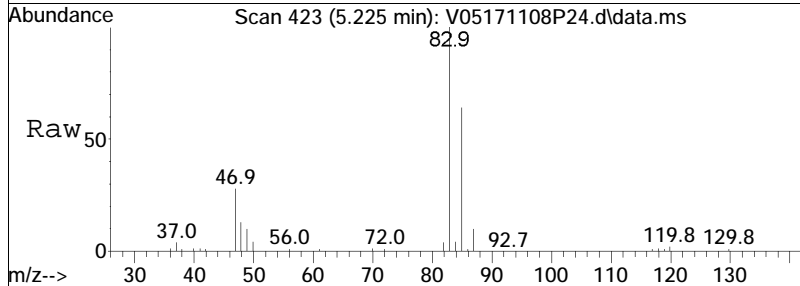
Tgt Ion: 56 Resp: 315373
 Ion Ratio Lower Upper
 56 100
 84 76.0 51.3 106.5

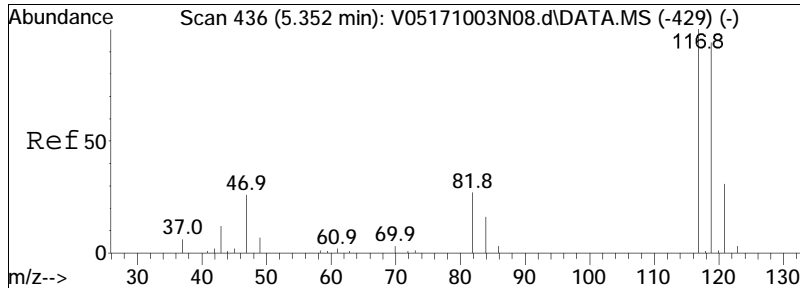




#32
 Chloroform
 Concen: 11.32 ug/L
 RT: 5.225 min Scan# 423
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

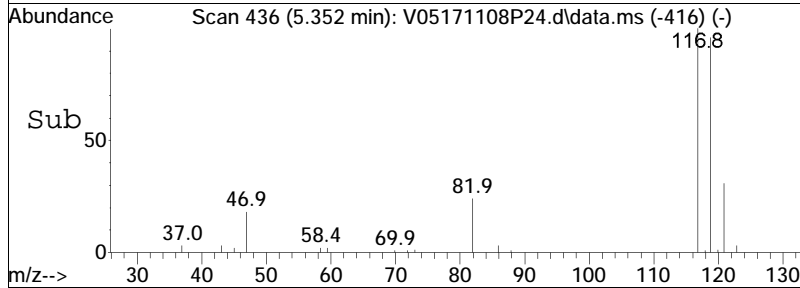
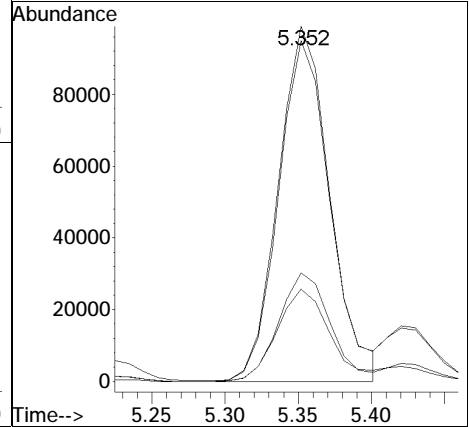
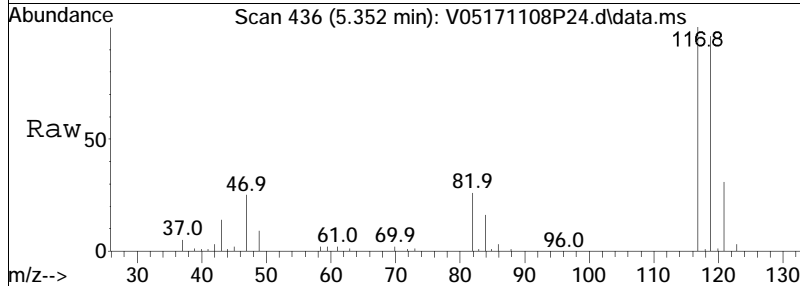
Tgt Ion	Resp	Lower	Upper
83	319617		
85	64.7	42.4	88.2
47	26.2	17.9	37.1
48	12.9	9.1	18.9

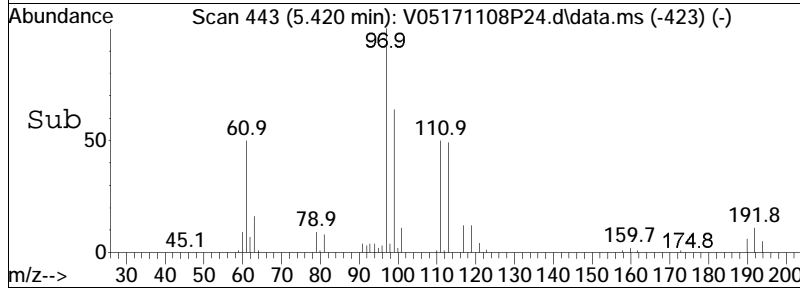
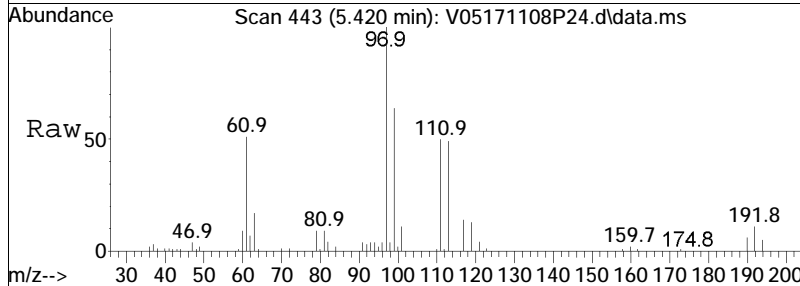
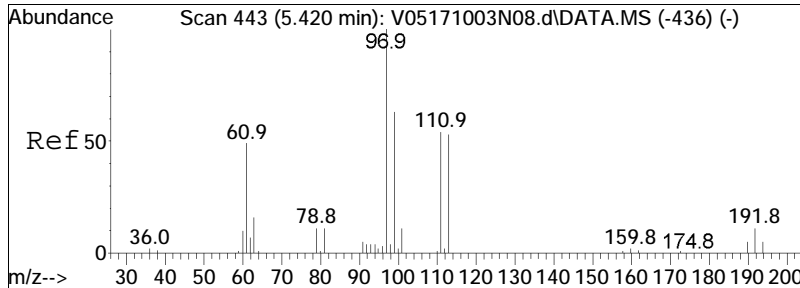




#34
 Carbon tetrachloride
 Concen: 9.86 ug/L
 RT: 5.352 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

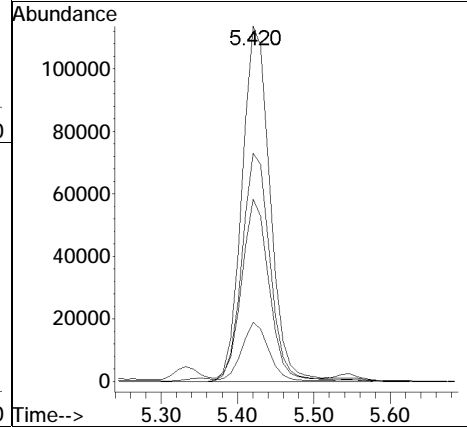
Tgt Ion	Resp	Lower	Upper
117	241975		
117	100		
119	96.0	62.2	129.2
121	30.7	20.2	41.9
82	26.3	17.6	36.6

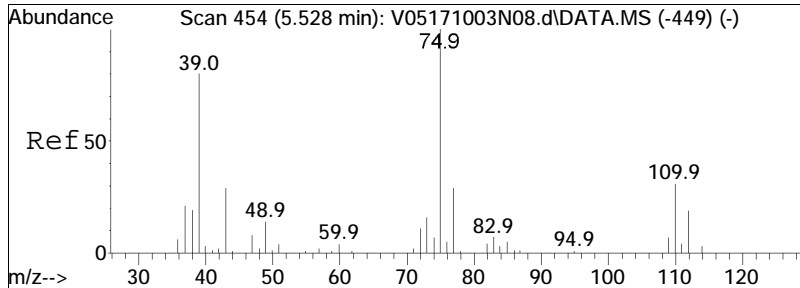




#37
 1,1,1-Trichloroethane
 Concen: 10.76 ug/L
 RT: 5.420 min Scan# 443
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

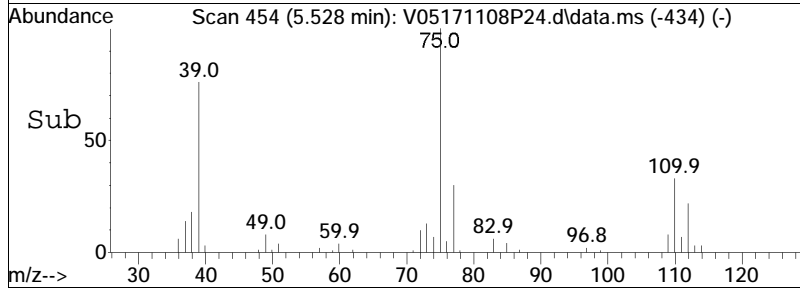
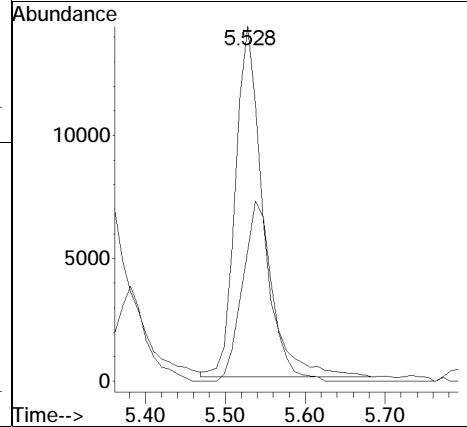
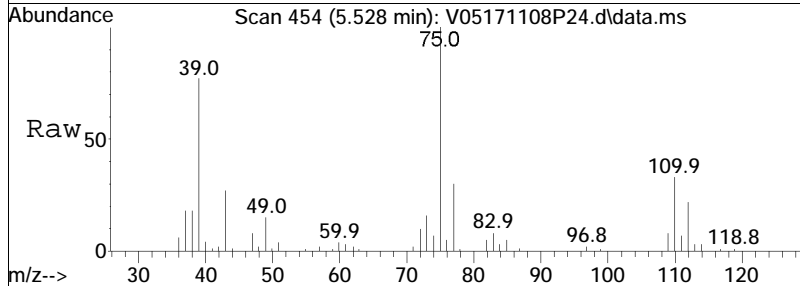
Tgt Ion	Resp	Lower	Upper
97	293260		
99	100		
99	63.7	42.3	87.9
61	48.3	31.3	64.9
63	15.5	10.1	20.9

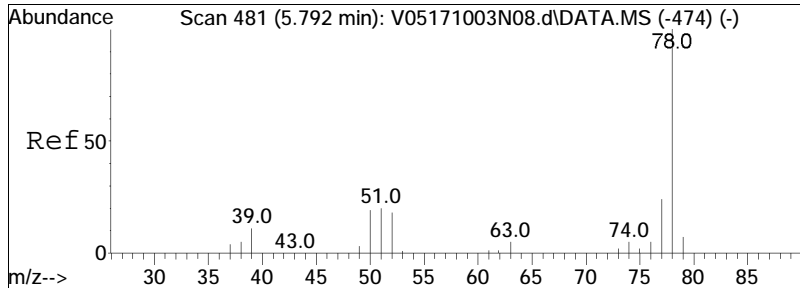




#39
 2-Butanone
 Concen: 13.88 ug/L
 RT: 5.528 min Scan# 454
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

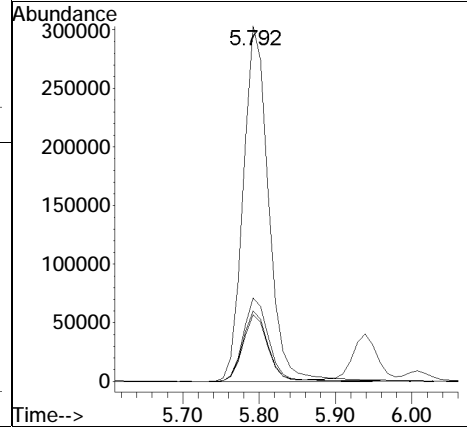
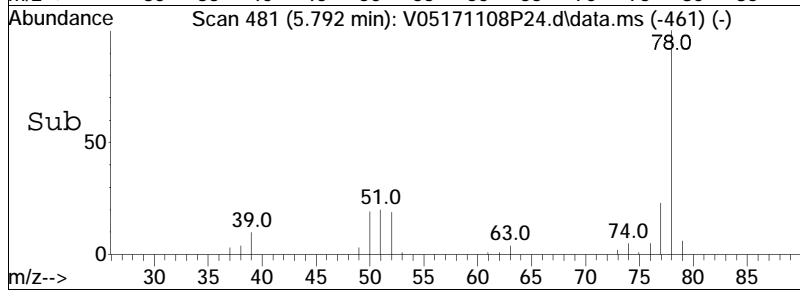
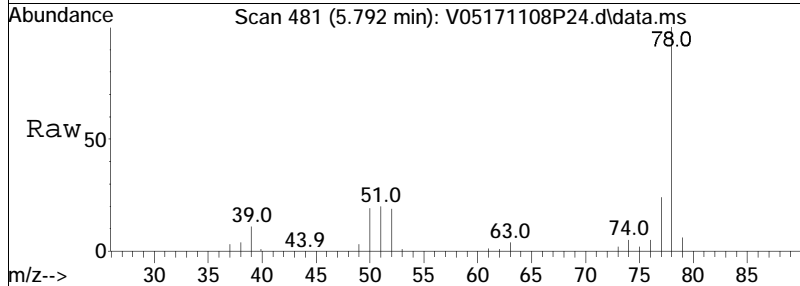
Tgt Ion: 43 Resp: 34783
 Ion Ratio Lower Upper
 43 100
 72 54.3 44.2 66.4

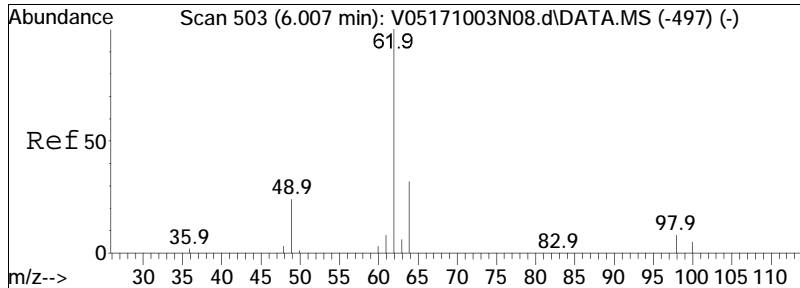




#41
Benzene
Concen: 12.82 ug/L
RT: 5.792 min Scan# 481
Delta R.T. 0.000 min
Lab File: V05171108P24.d
Acq: 9 Nov 2017 6:30 am

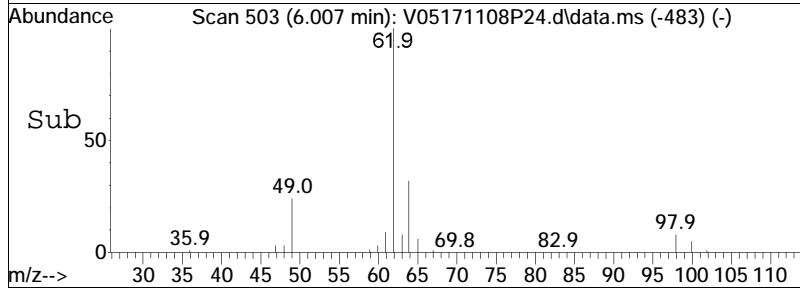
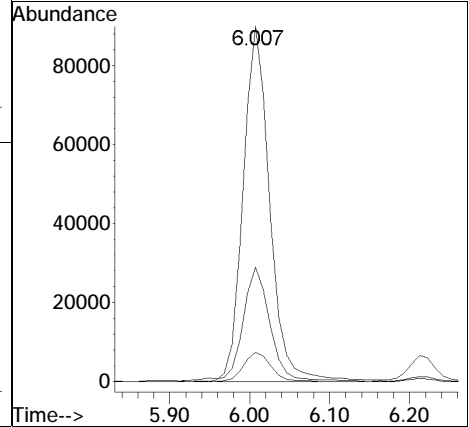
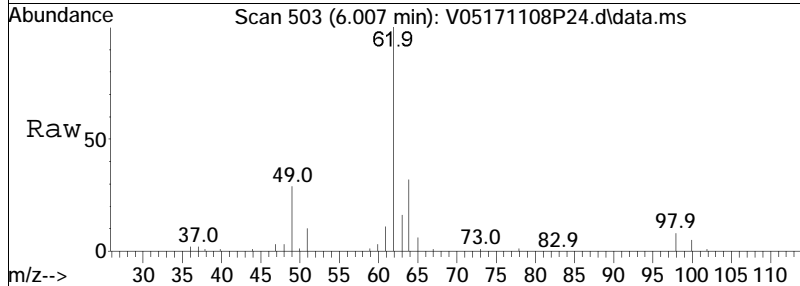
Tgt Ion	Resp	Lower	Upper
78	100		
77	23.6	15.3	31.9
51	19.5	12.5	25.9
52	19.0	11.4	23.6

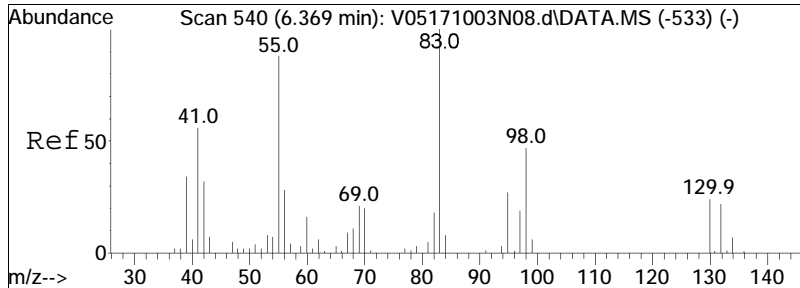




#44
 1,2-Dichloroethane
 Concen: 11.17 ug/L
 RT: 6.007 min Scan# 503
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

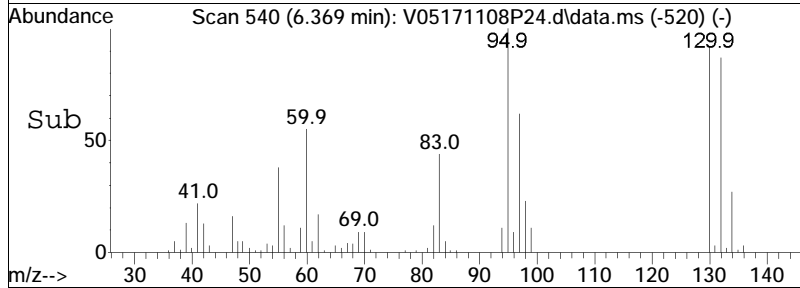
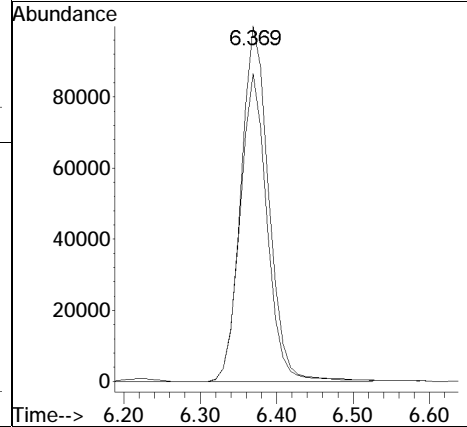
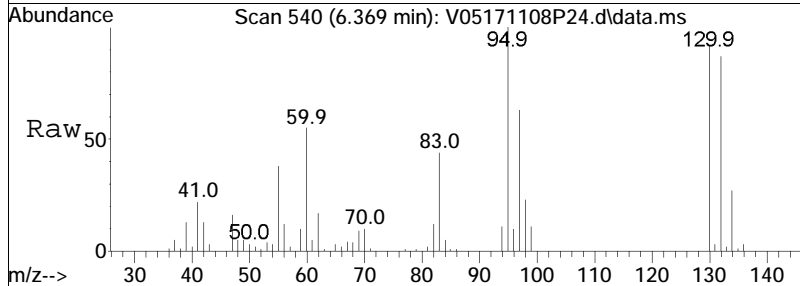
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
62	100		
64	33.1	13.1	53.1
98	8.4	0.0	27.8

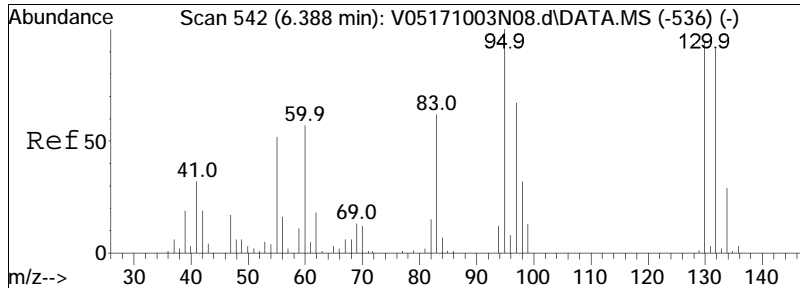




#47
 Methyl cyclohexane
 Concen: 12.83 ug/L
 RT: 6.369 min Scan# 540
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

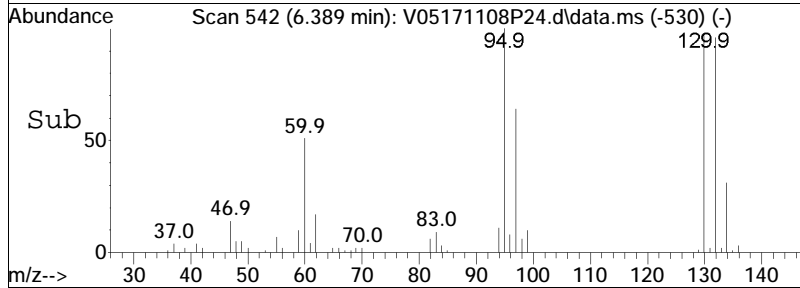
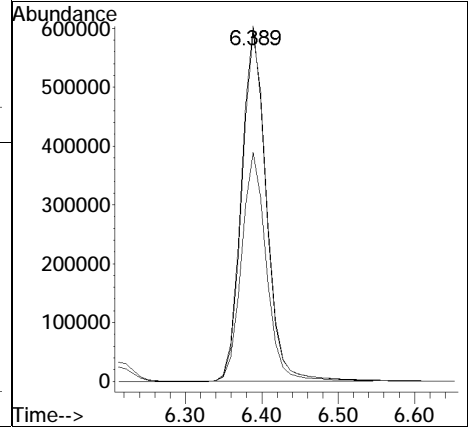
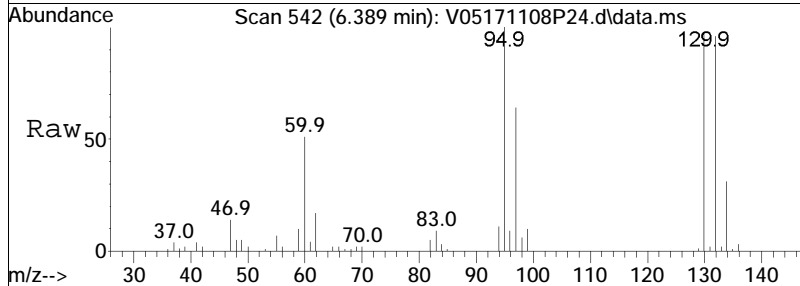
Tgt Ion	Resp	Lower	Upper
83	100		
55	83.9	69.5	104.3

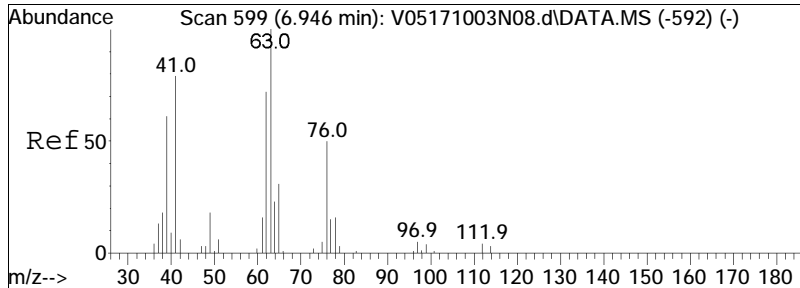




#48
 Trichloroethene
 Concen: 79.33 ug/L
 RT: 6.389 min Scan# 542
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

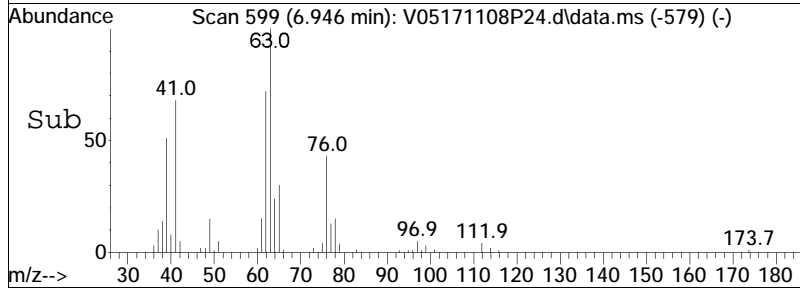
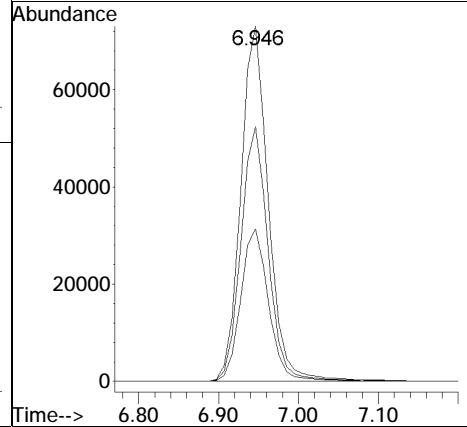
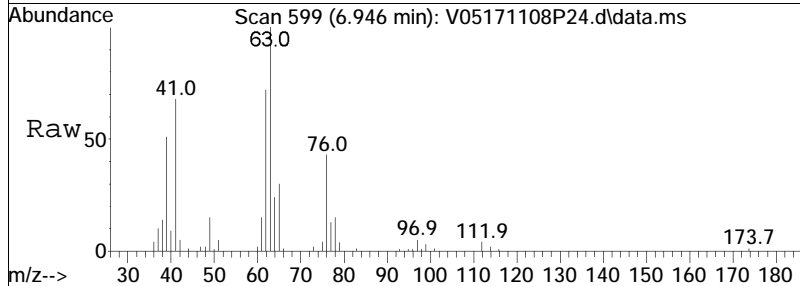
Tgt Ion	Resp	Lower	Upper
95	100		
97	64.5	53.5	80.3
130	99.1	75.9	113.9

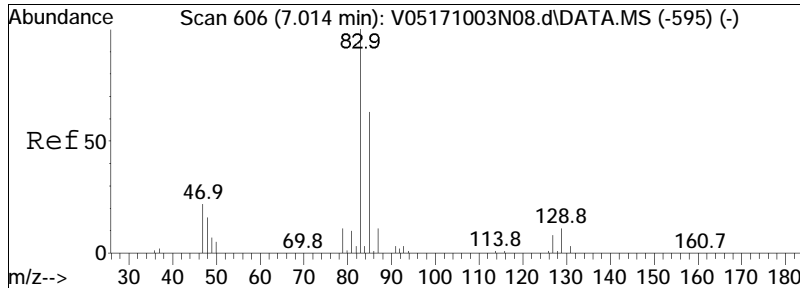




#51
 1,2-Dichloropropane
 Concen: 13.98 ug/L
 RT: 6.946 min Scan# 599
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

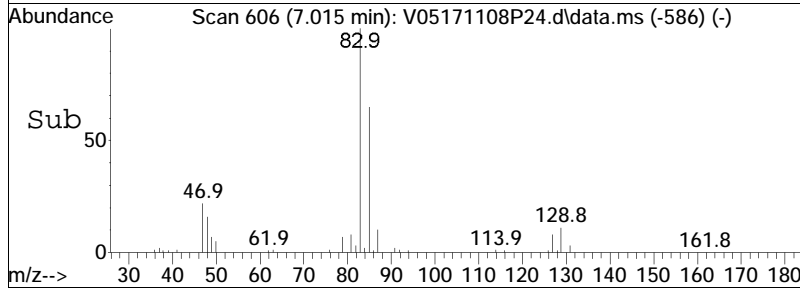
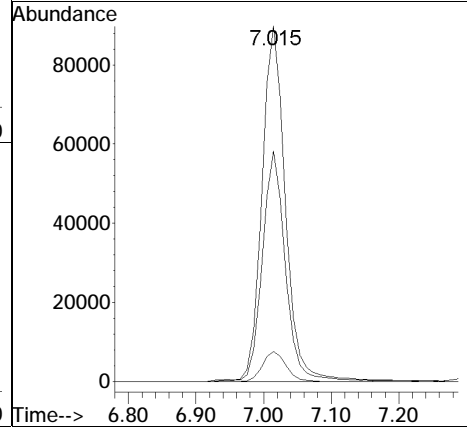
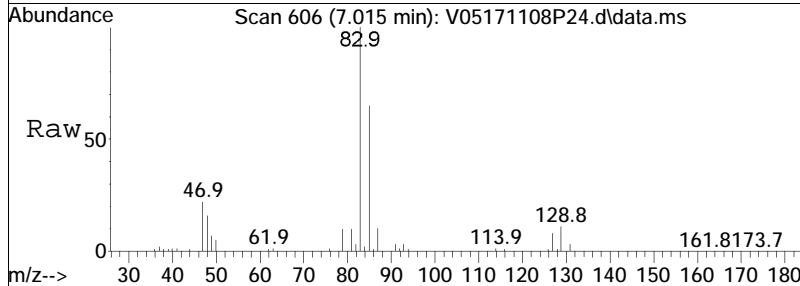
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
63	100		
62	71.3	57.4	86.2
76	43.6	39.8	59.6

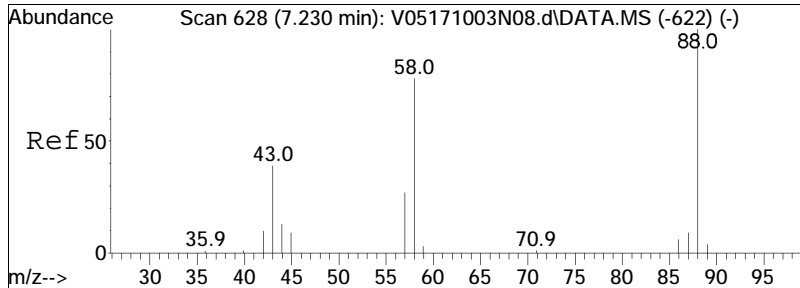




#54
 Bromodichloromethane
 Concen: 10.92 ug/L
 RT: 7.015 min Scan# 606
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

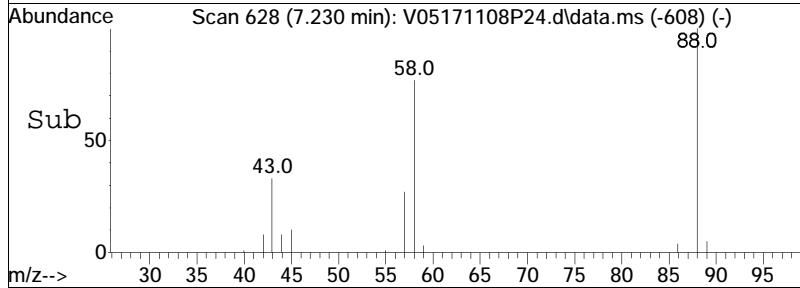
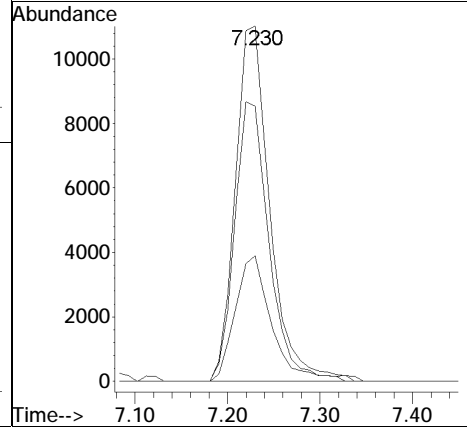
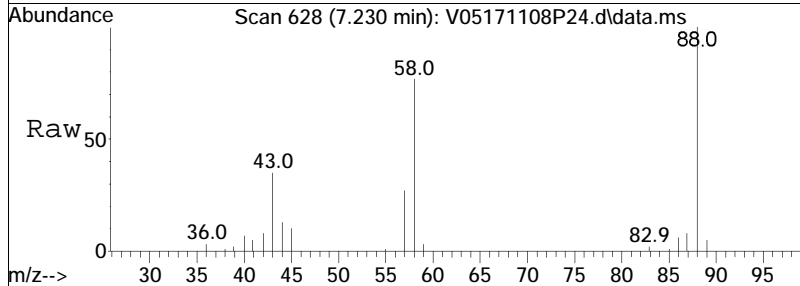
Tgt Ion	Resp	Lower	Upper
83	216642		
83	100		
85	63.5	50.3	75.5
127	8.3	6.6	9.8

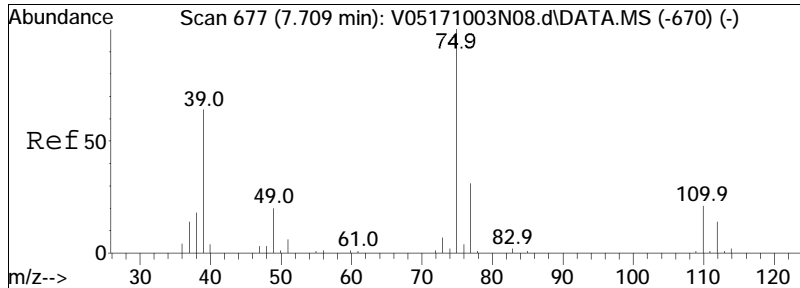




#57
 1,4-Dioxane
 Concen: 565.57 ug/L
 RT: 7.230 min Scan# 628
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

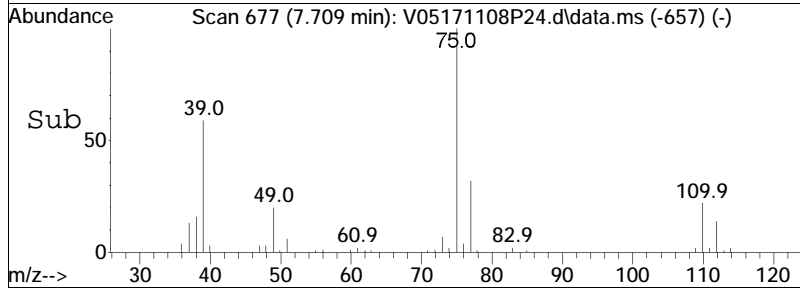
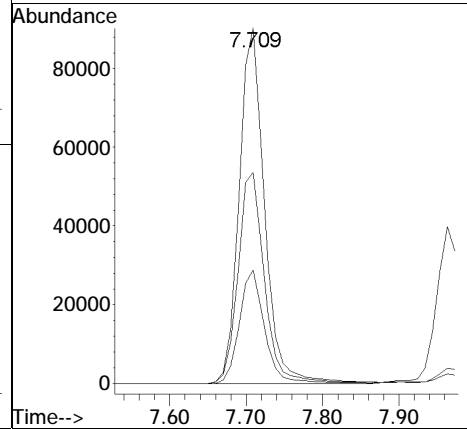
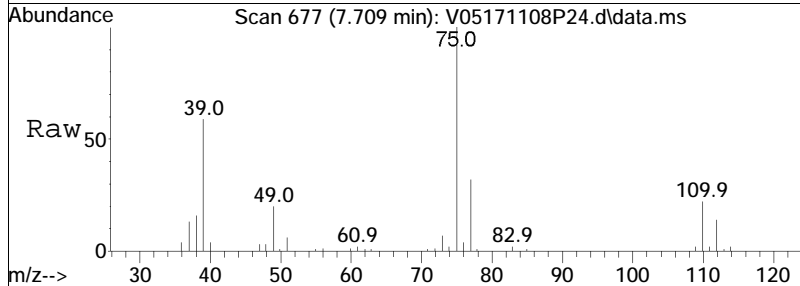
Tgt Ion:	88	Resp:	28749
Ion Ratio	Lower	Upper	
88	100		
58	78.4	61.5	92.3
43	37.0	30.5	45.7

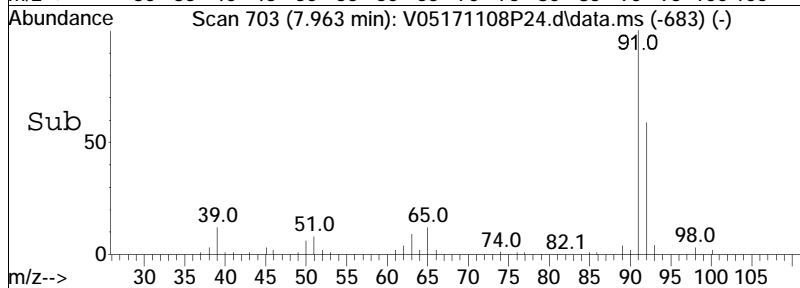
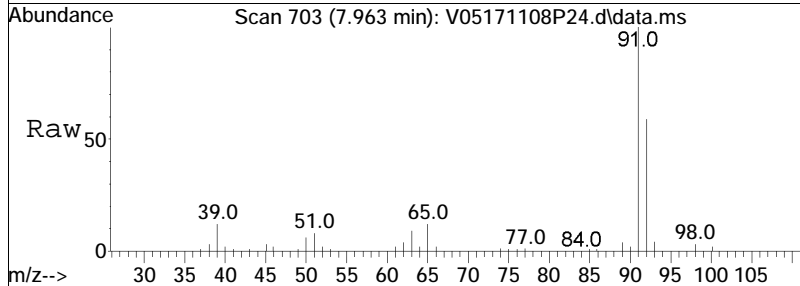
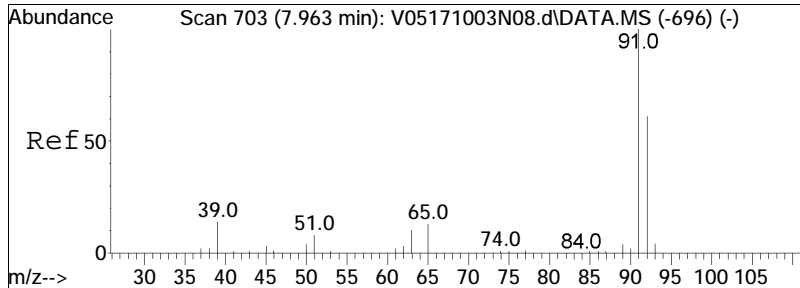




#58
 cis-1,3-Dichloropropene
 Concen: 9.56 ug/L
 RT: 7.709 min Scan# 677
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

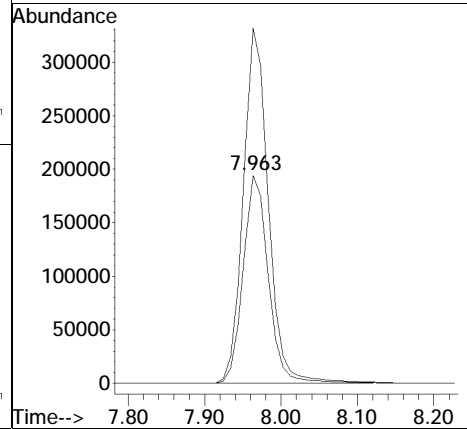
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
75	100		
77	31.6	25.1	37.7
39	61.8	53.4	80.2

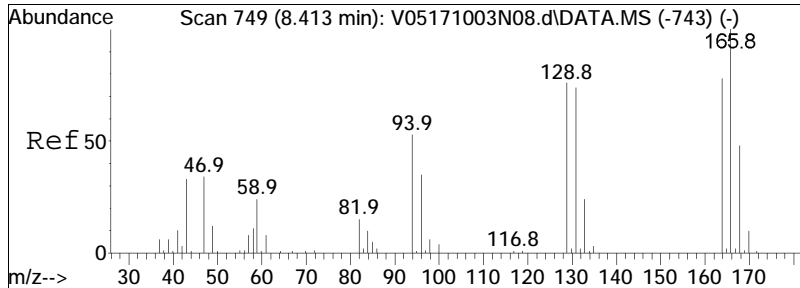




#61
 Toluene
 Concen: 12.60 ug/L
 RT: 7.963 min Scan# 703
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

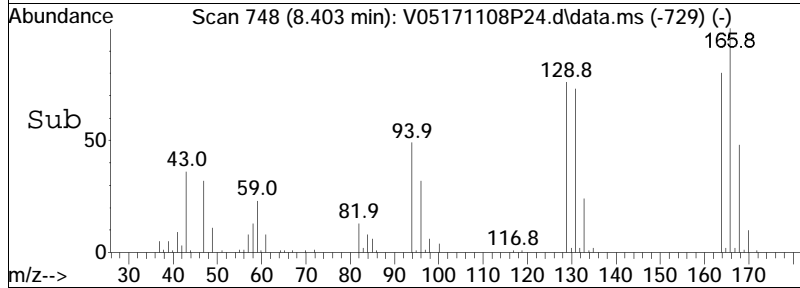
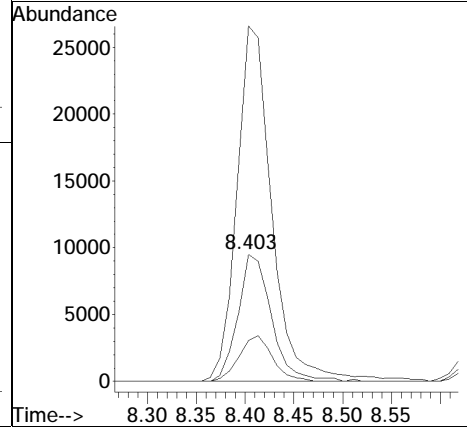
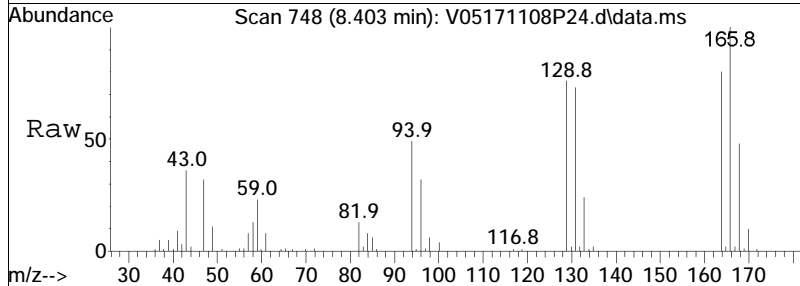
Tgt Ion:	Resp:	Lower	Upper
92	446508		
91	169.4	133.0	199.4

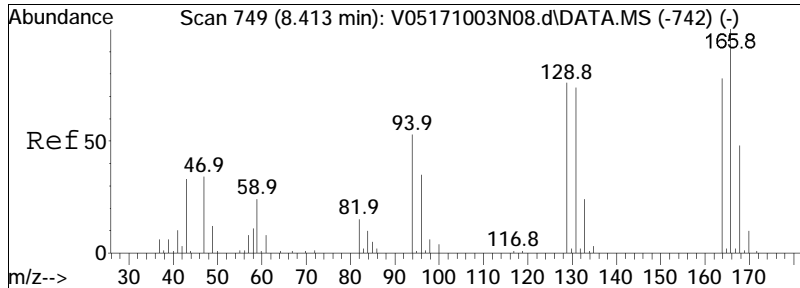




#62
 4-Methyl-2-pentanone
 Concen: 12.76 ug/L
 RT: 8.403 min Scan# 748
 Delta R.T. -0.010 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

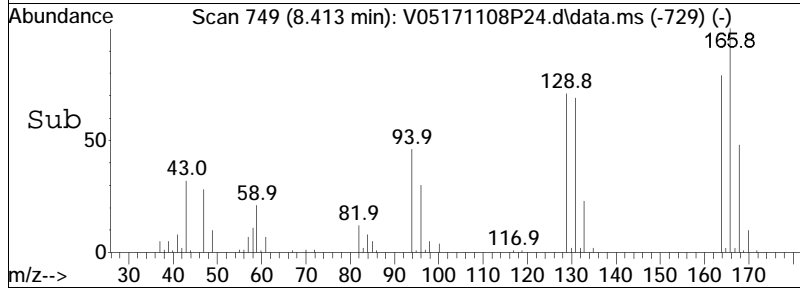
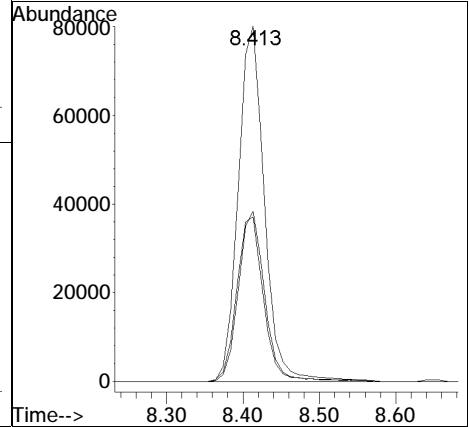
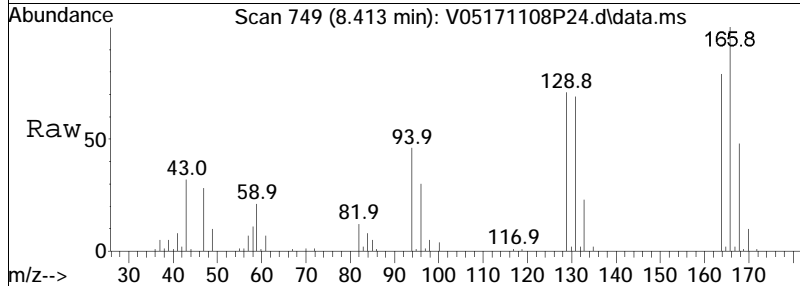
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
58	100		
100	35.9	29.3	43.9
43	292.1	247.4	371.0

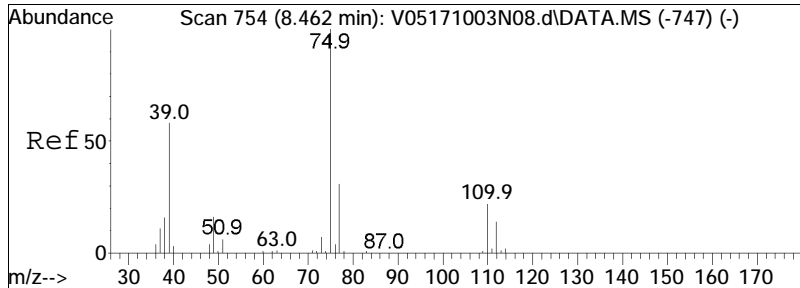




#63
 Tetrachloroethene
 Concen: 9.73 ug/L
 RT: 8.413 min Scan# 749
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

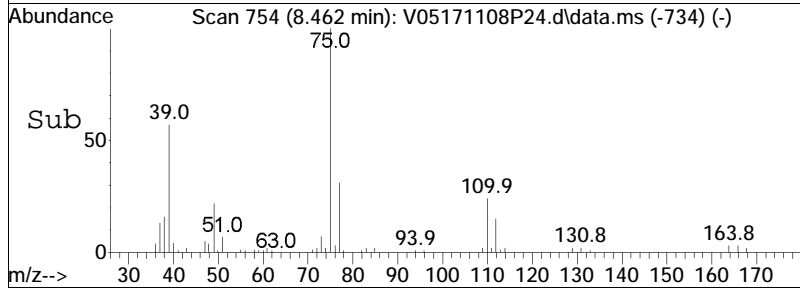
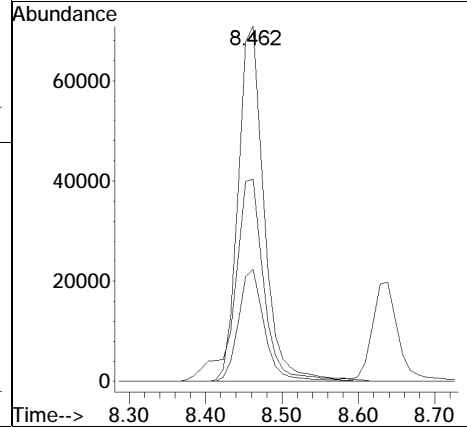
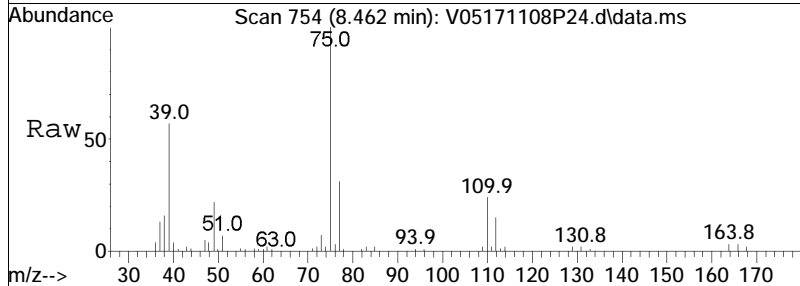
Tgt Ion	Resp	Lower	Upper
166	100		
168	48.1	27.2	67.2
94	47.4	35.8	75.8

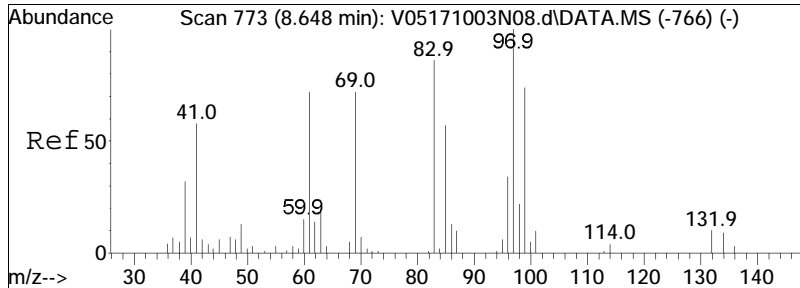




#65
 trans-1,3-Dichloropropene
 Concen: 9.92 ug/L
 RT: 8.462 min Scan# 754
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

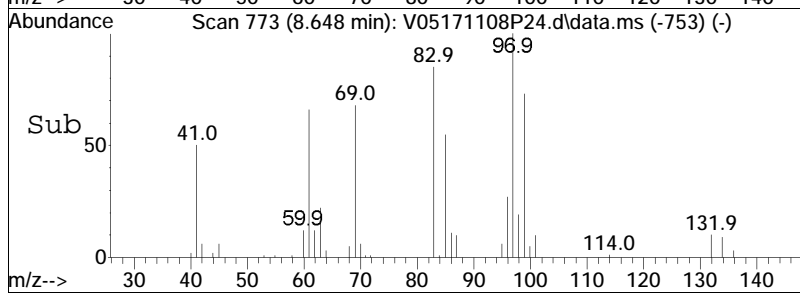
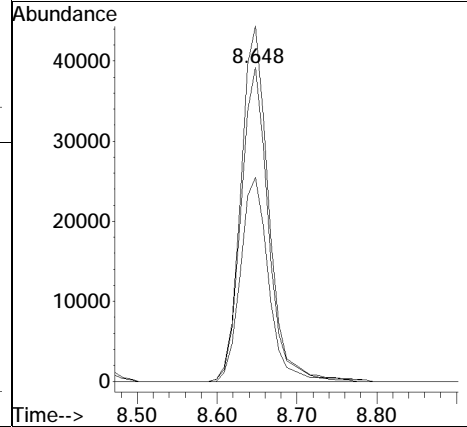
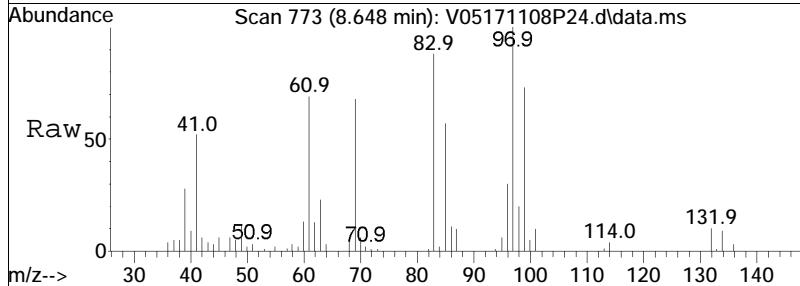
Tgt Ion	Resp	Lower	Upper
75	100		
77	31.8	10.9	50.9
39	63.9	48.1	88.1

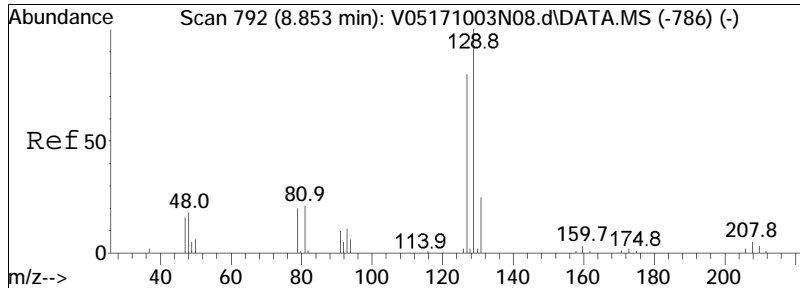




#68
 1,1,2-Trichloroethane
 Concen: 12.99 ug/L
 RT: 8.648 min Scan# 773
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

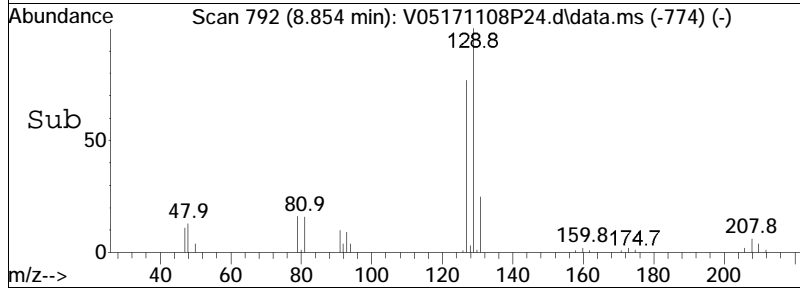
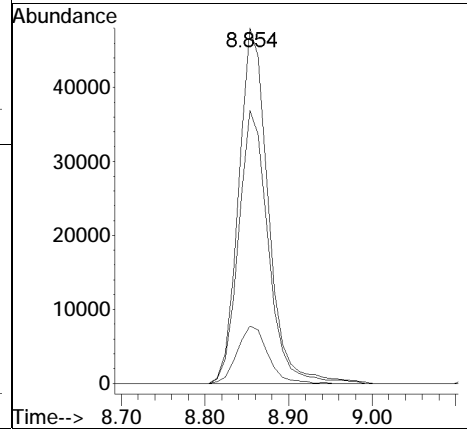
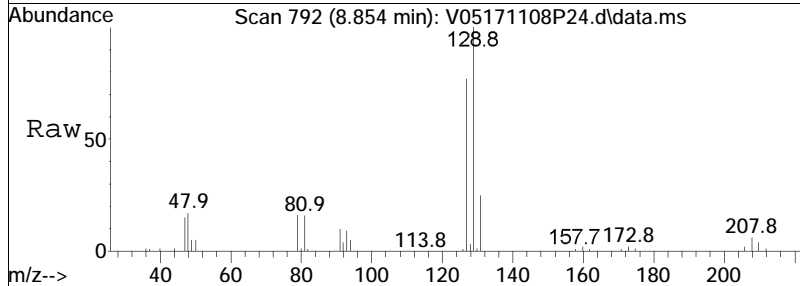
Tgt Ion	Resp	Lower	Upper
83	101359		
83	100		
97	114.5	93.6	133.6
85	67.0	46.9	86.9

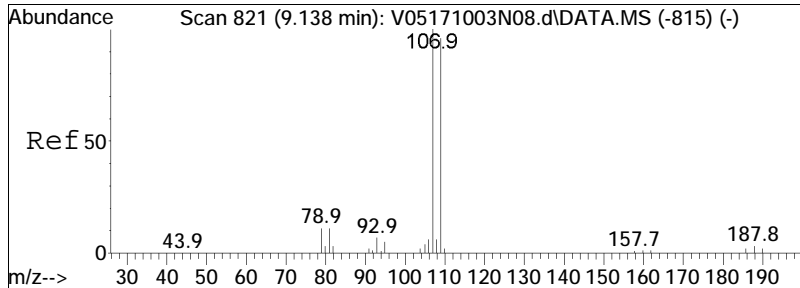




#69
 Chlorodibromomethane
 Concen: 10.45 ug/L
 RT: 8.854 min Scan# 792
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

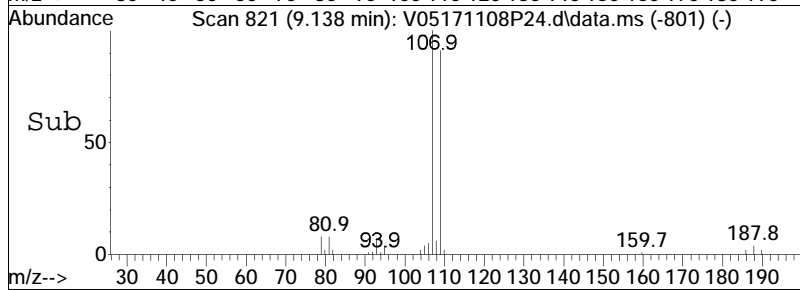
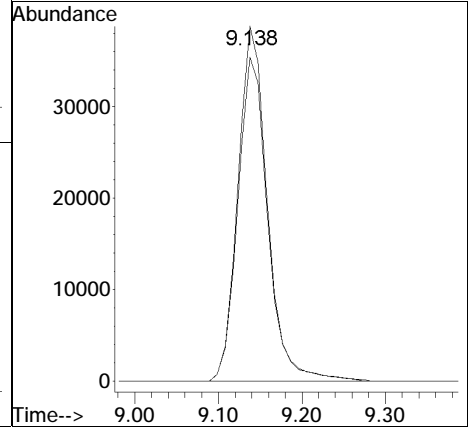
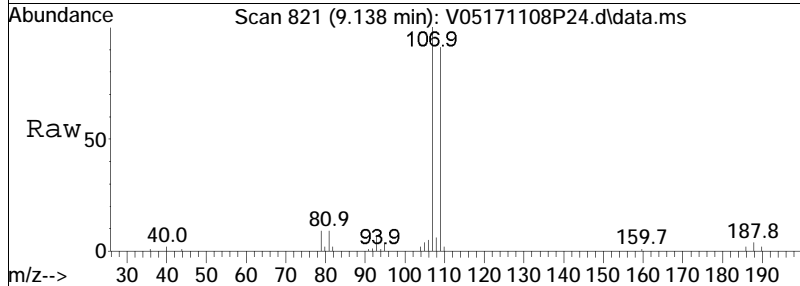
Tgt Ion	Resp	Lower	Upper
129	118178		
129	100		
81	16.7	0.0	40.0
127	77.2	57.9	97.9

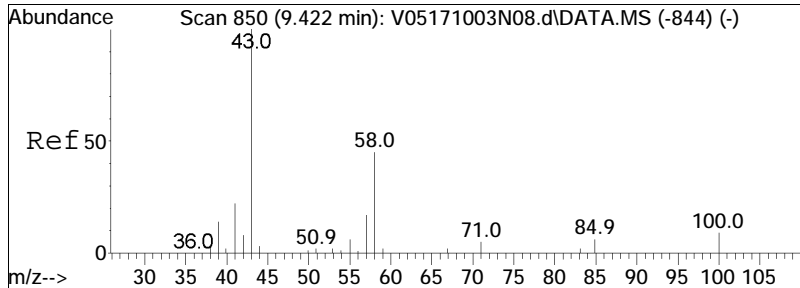




#71
 1,2-Dibromoethane
 Concen: 11.91 ug/L
 RT: 9.138 min Scan# 821
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

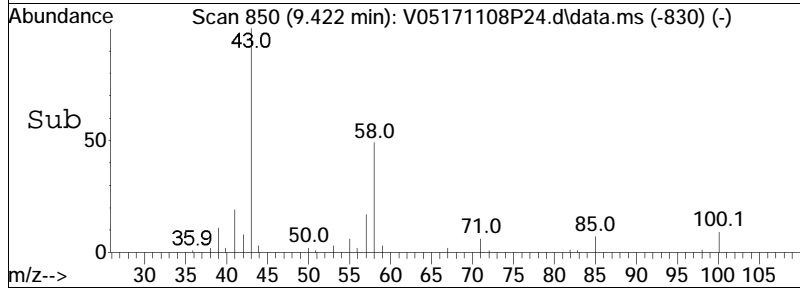
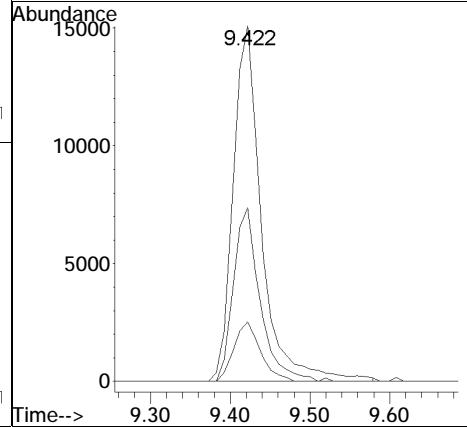
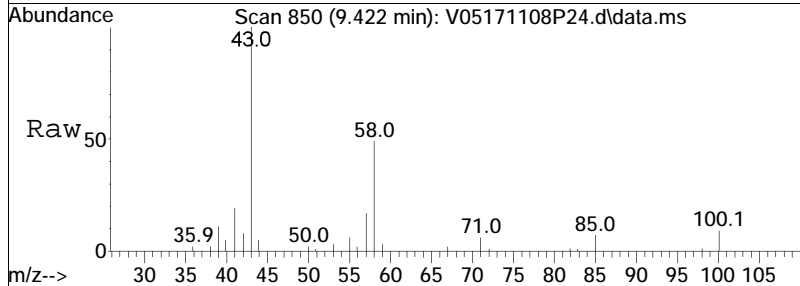
Tgt Ion	Resp	Lower	Upper
107	100		
109	93.2	75.5	113.3

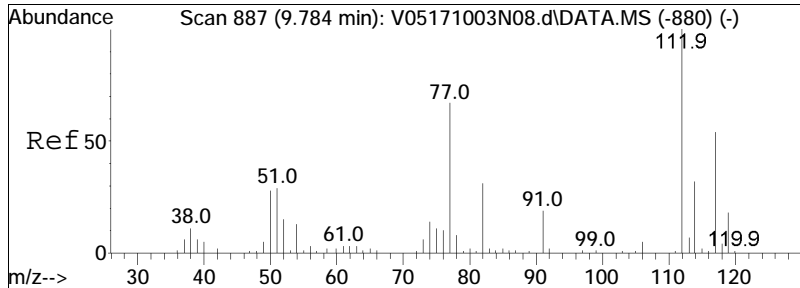




#72
 2-Hexanone
 Concen: 10.52 ug/L
 RT: 9.422 min Scan# 850
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

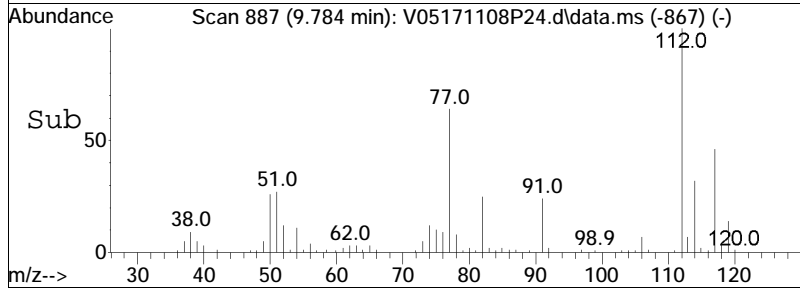
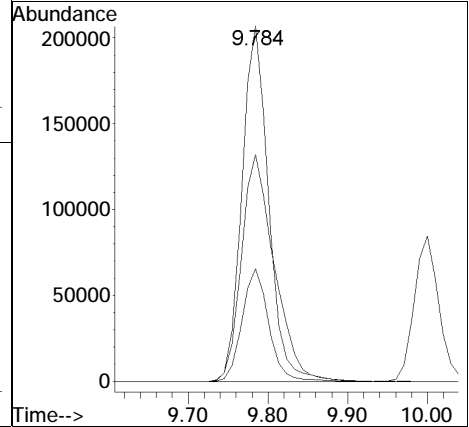
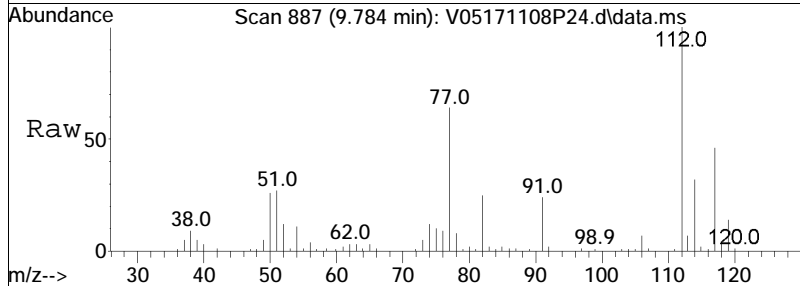
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
43	100		
58	45.9	32.8	49.2
57	15.7	11.8	17.8

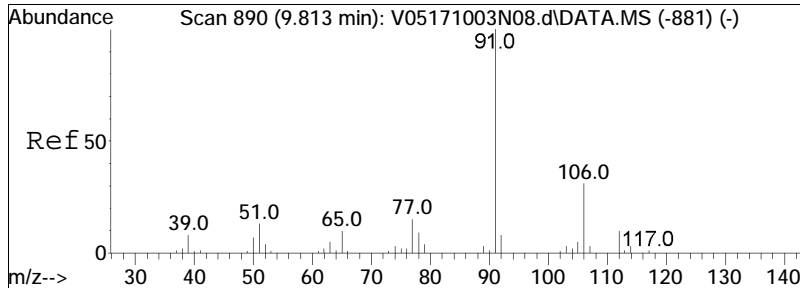




#73
 Chlorobenzene
 Concen: 11.83 ug/L
 RT: 9.784 min Scan# 887
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

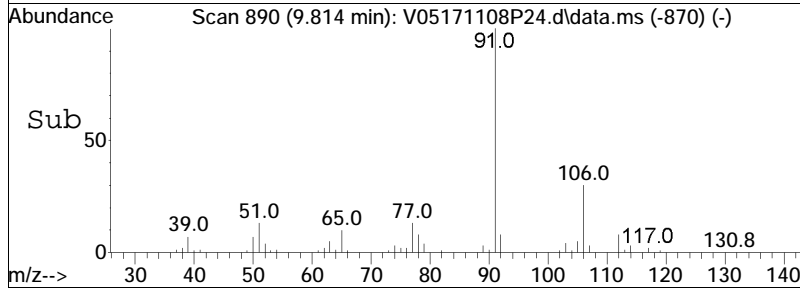
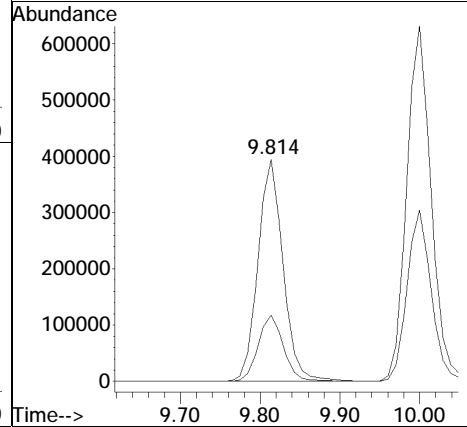
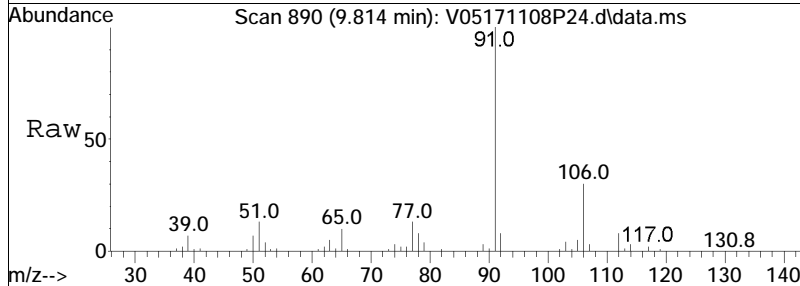
Tgt Ion	Resp	Lower	Upper
112	100		
77	78.7	67.0	100.4
114	31.7	25.6	38.4

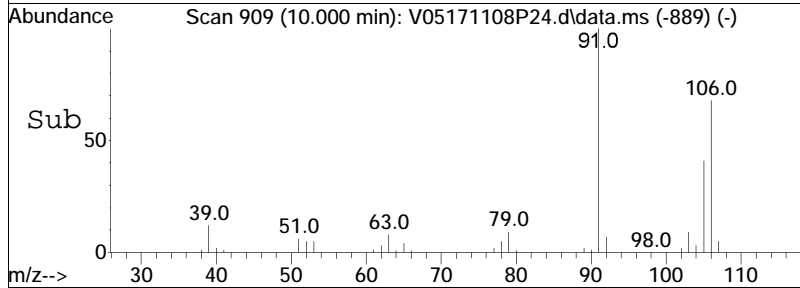
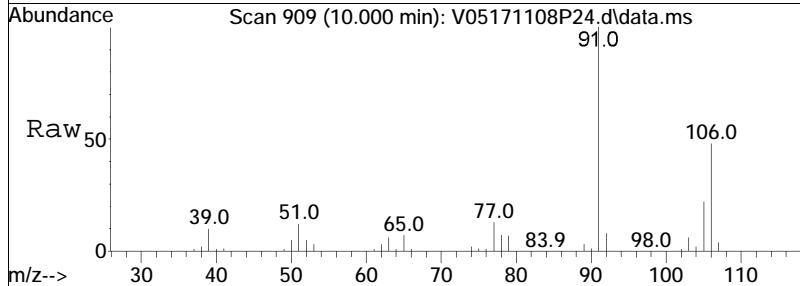
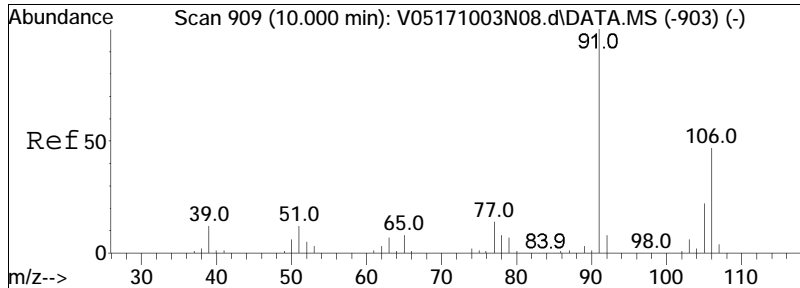




#74
 Ethylbenzene
 Concen: 12.72 ug/L
 RT: 9.814 min Scan# 890
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

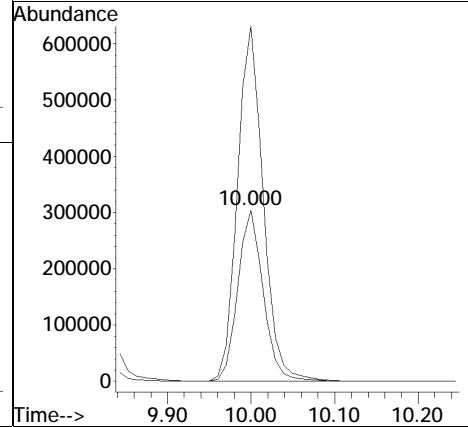
Tgt Ion: 91 Resp: 863892
 Ion Ratio Lower Upper
 91 100
 106 30.0 23.8 35.8

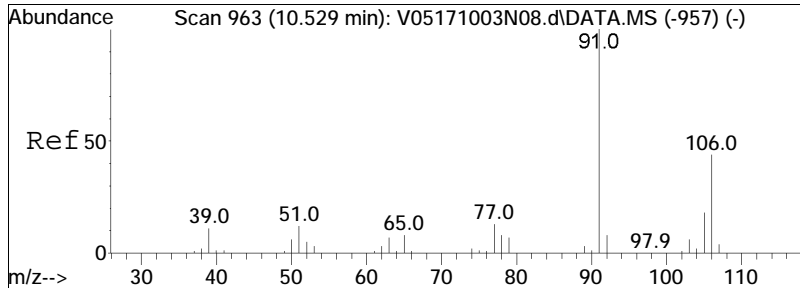




#76
 p/m Xylene
 Concen: 25.14 ug/L
 RT: 10.000 min Scan# 909
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

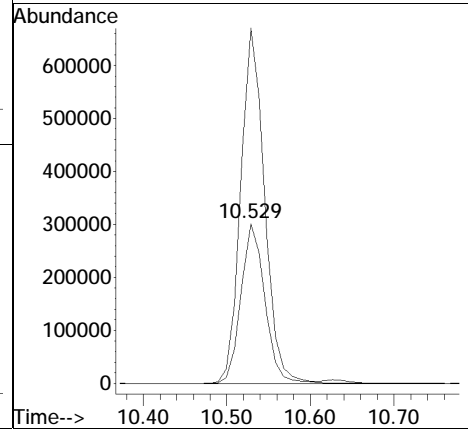
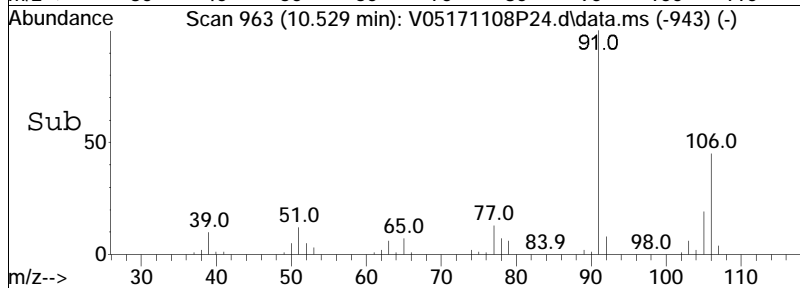
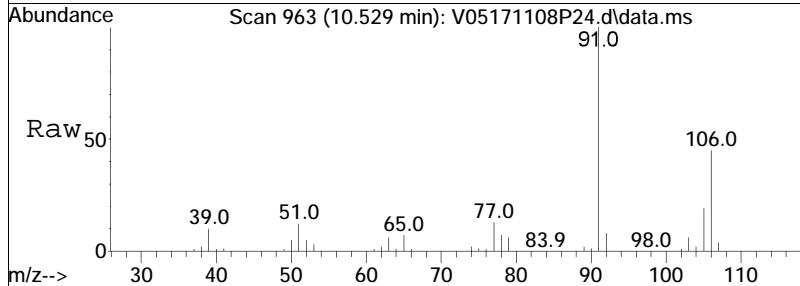
Tgt Ion	Resp	Lower	Upper
106	100		
91	208.8	169.0	253.4

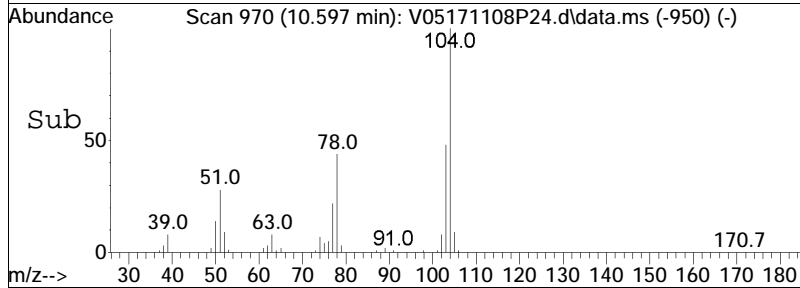
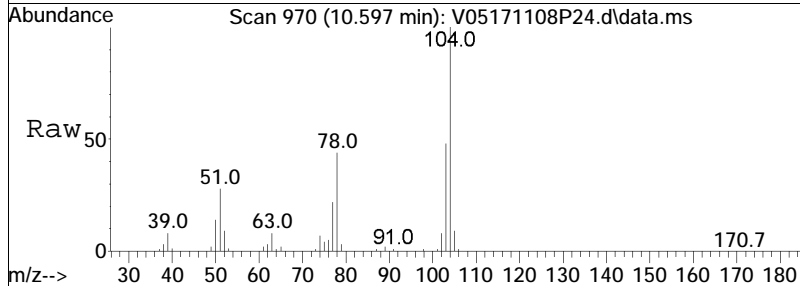
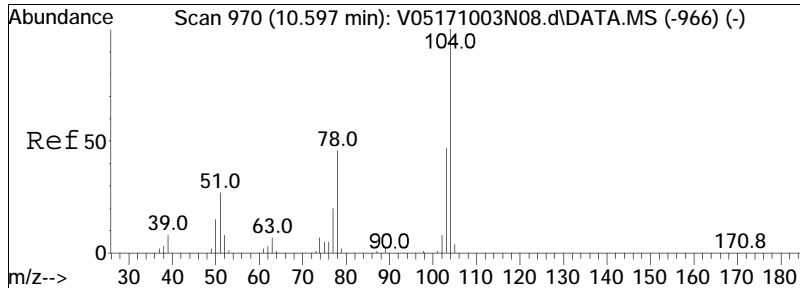




#77
 o Xylene
 Concen: 24.10 ug/L
 RT: 10.529 min Scan# 963
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

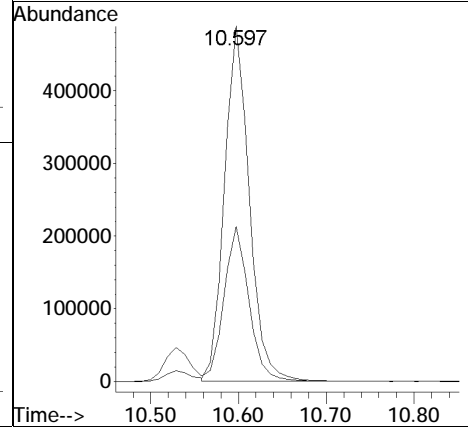
Tgt Ion: 106 Resp: 599202
 Ion Ratio Lower Upper
 106 100
 91 221.1 178.9 268.3

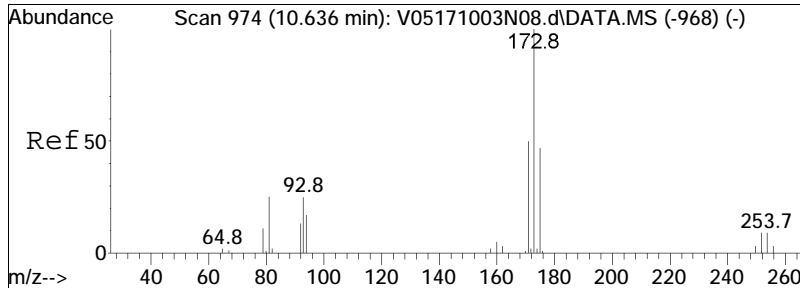




#78
 Styrene
 Concen: 23.98 ug/L
 RT: 10.597 min Scan# 970
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

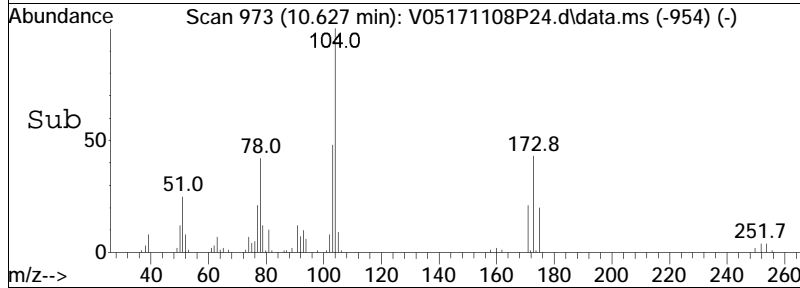
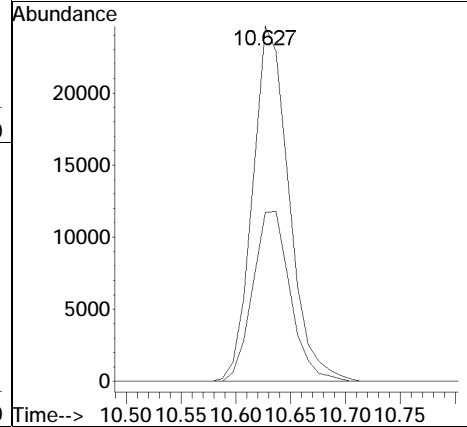
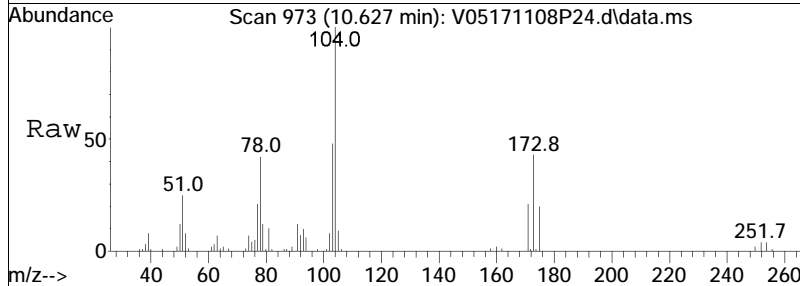
Tgt Ion	Resp	Lower	Upper
104	100		
78	43.8	37.9	56.9

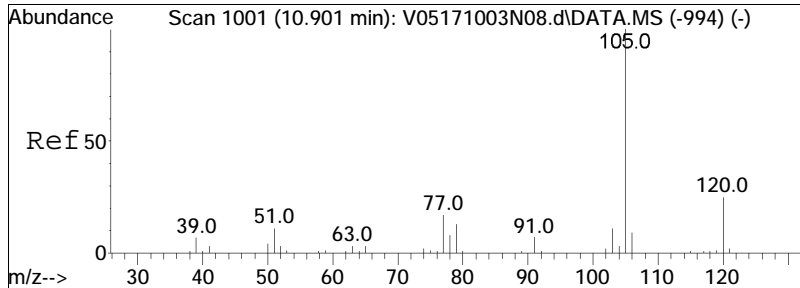




#80
 Bromoform
 Concen: 10.12 ug/L
 RT: 10.627 min Scan# 973
 Delta R.T. -0.010 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

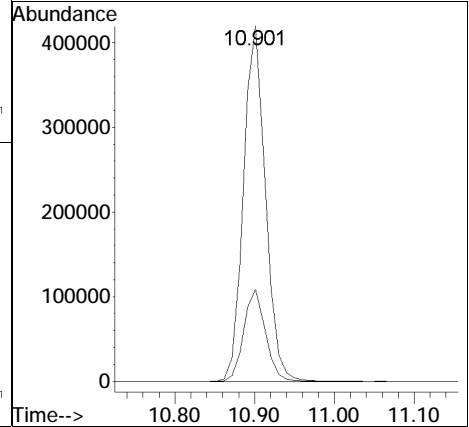
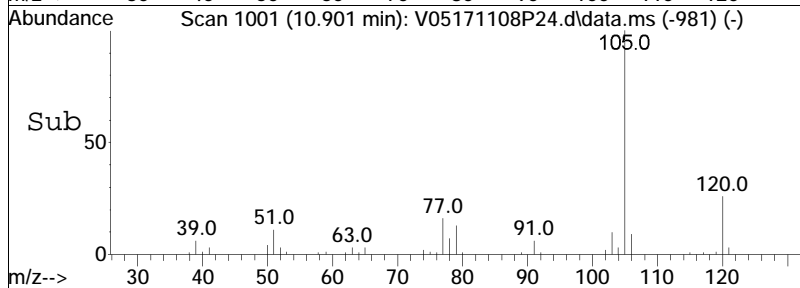
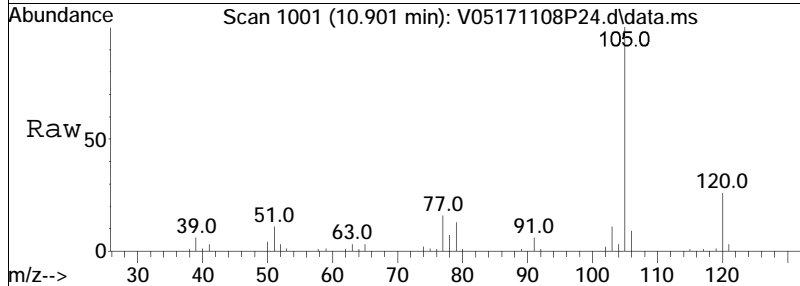
Tgt Ion	Resp	Lower	Upper
173	56797		
173	100		
175	49.5	27.7	67.7

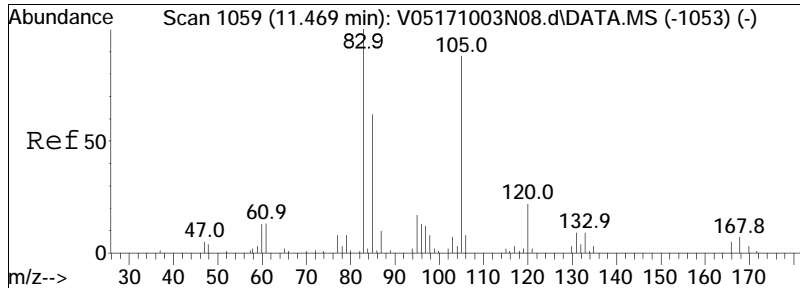




#82
 Isopropylbenzene
 Concen: 12.56 ug/L
 RT: 10.901 min Scan# 1001
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

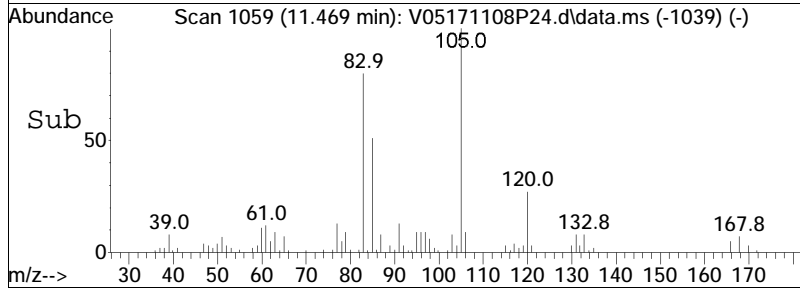
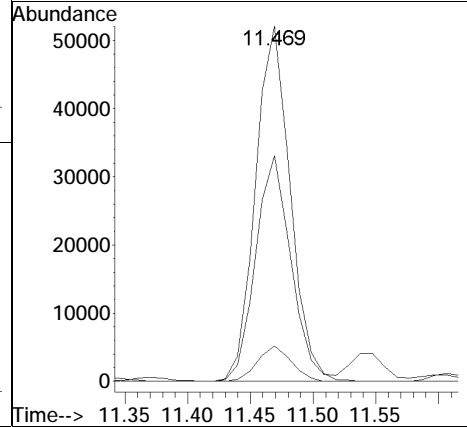
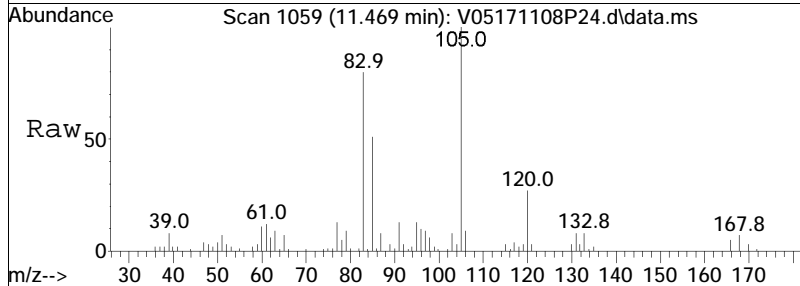
Tgt Ion	Resp	Lower	Upper
105	100		
120	25.6	5.8	45.8

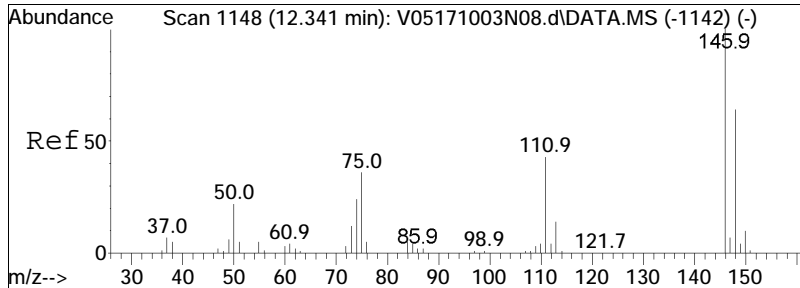




#87
 1,1,2,2-Tetrachloroethane
 Concen: 14.28 ug/L
 RT: 11.469 min Scan# 1059
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

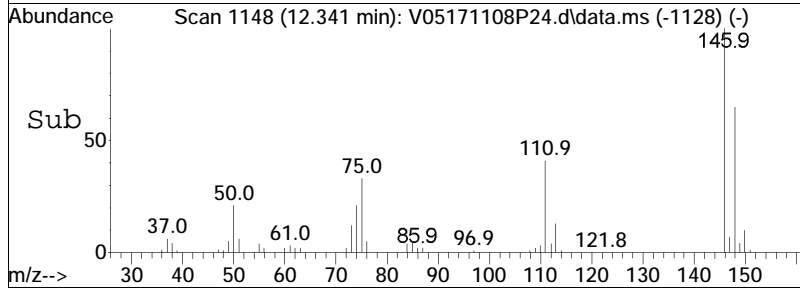
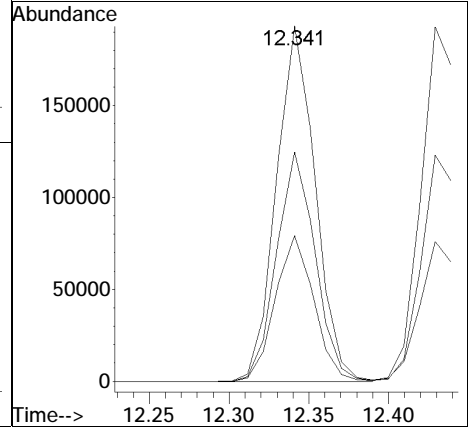
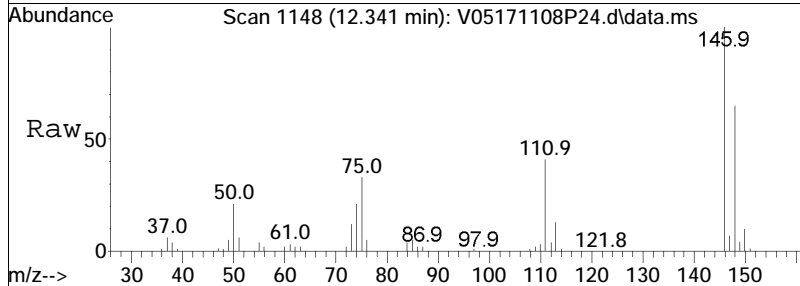
Tgt Ion	Resp	Lower	Upper
83	100299		
83	100		
131	9.8	0.0	29.3
85	65.1	44.5	84.5

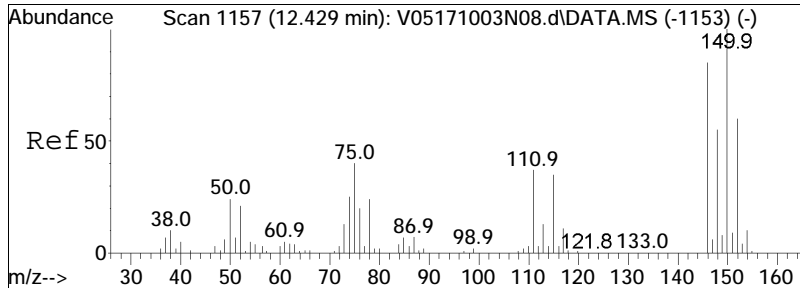




#100
 1,3-Dichlorobenzene
 Concen: 11.62 ug/L
 RT: 12.341 min Scan# 1148
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

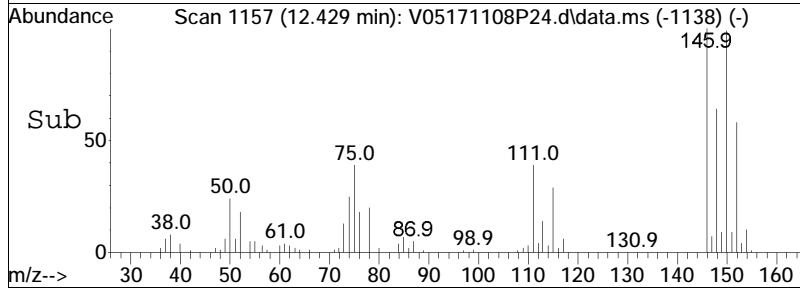
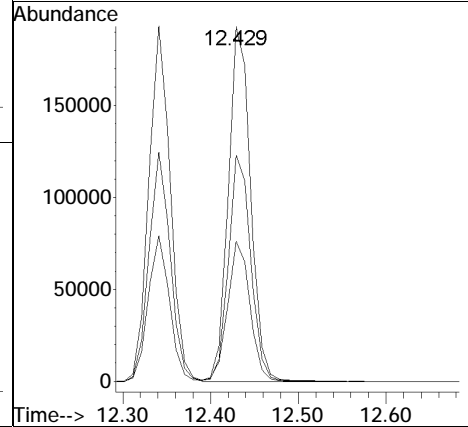
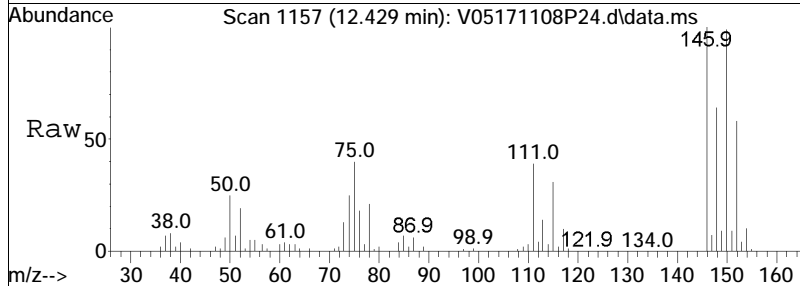
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.8	27.6	57.4
148	64.1	41.3	85.9

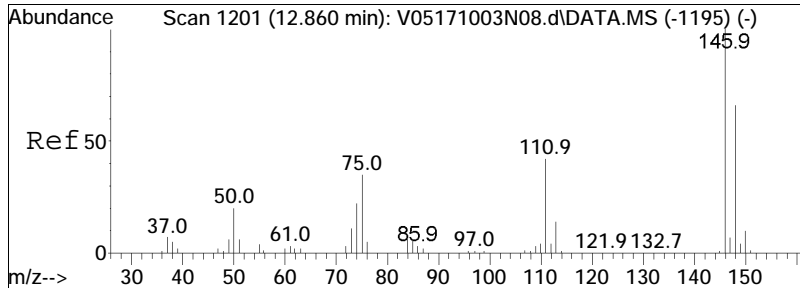




#101
 1,4-Dichlorobenzene
 Concen: 11.53 ug/L
 RT: 12.429 min Scan# 1157
 Delta R.T. -0.010 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

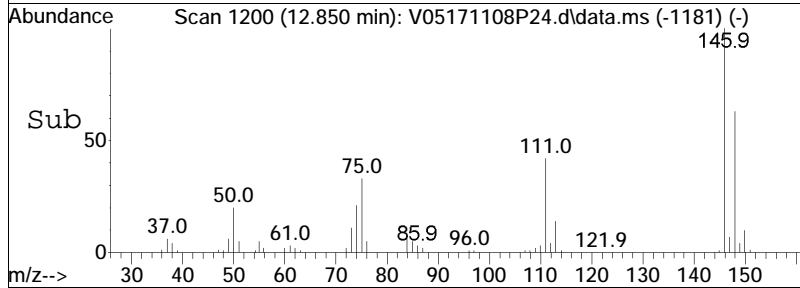
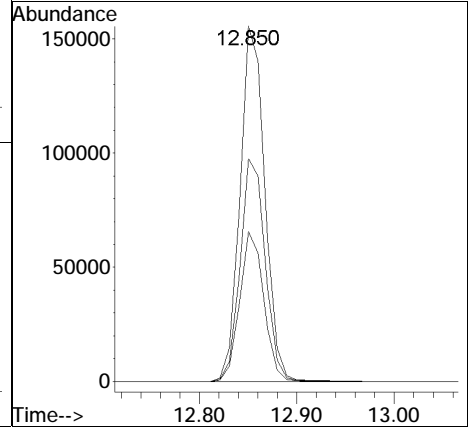
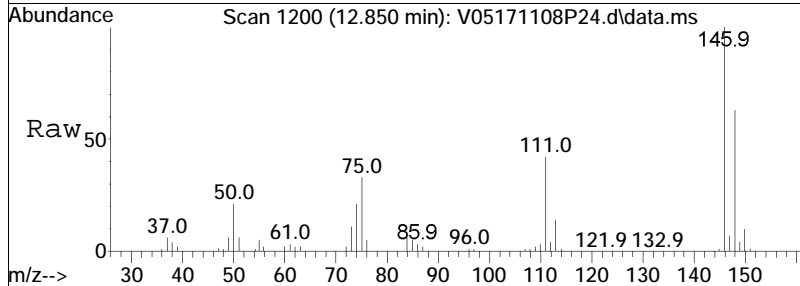
Tgt Ion	Resp	Lower	Upper
146	100		
111	39.6	33.6	50.4
148	63.7	51.3	76.9

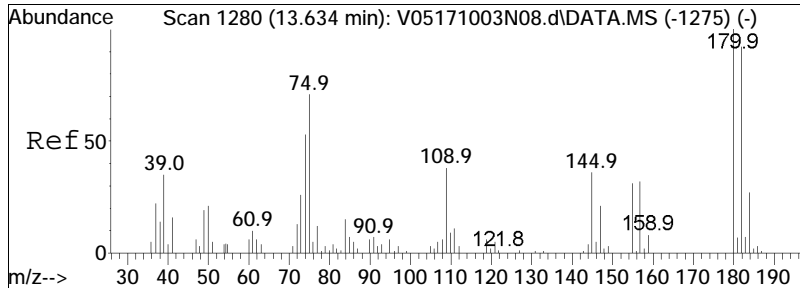




#104
 1,2-Dichlorobenzene
 Concen: 11.80 ug/L
 RT: 12.850 min Scan# 1200
 Delta R.T. -0.010 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

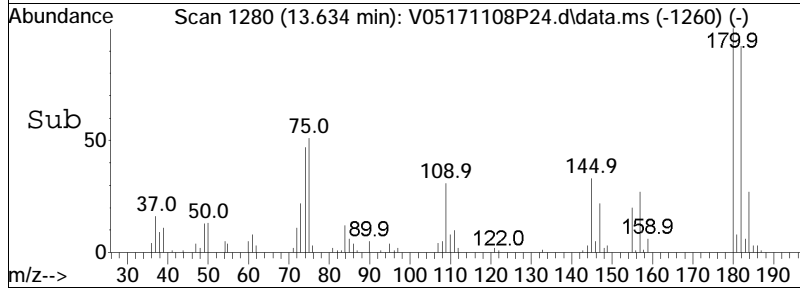
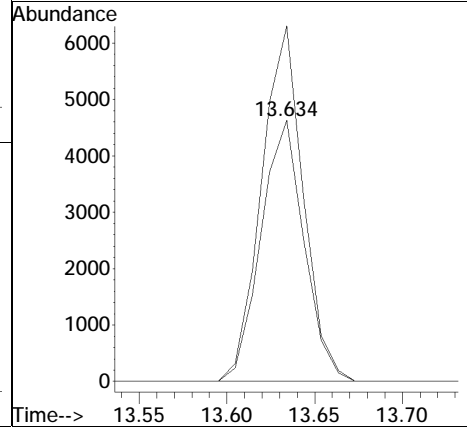
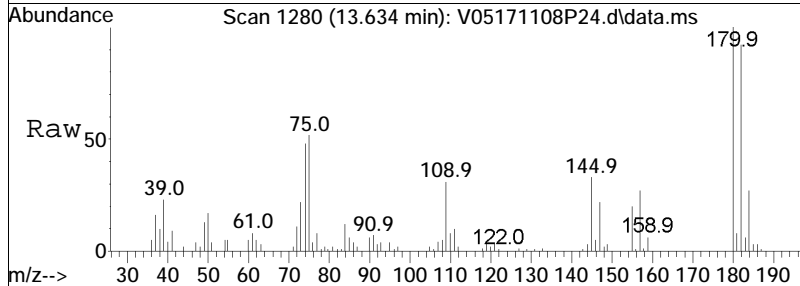
Tgt Ion	Resp	Lower	Upper
146	100		
111	41.1	28.3	58.9
148	63.3	41.9	87.1

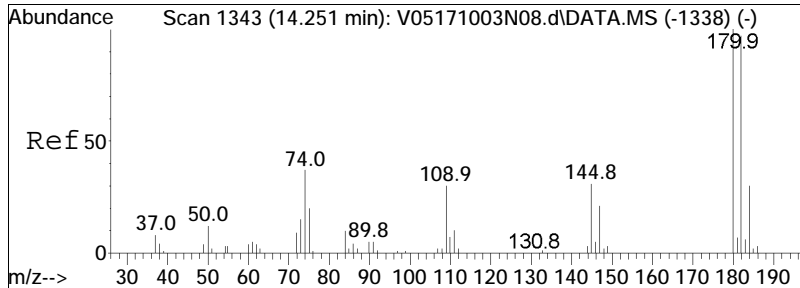




#106
 1,2-Dibromo-3-chloropropane
 Concen: 8.73 ug/L
 RT: 13.634 min Scan# 1280
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

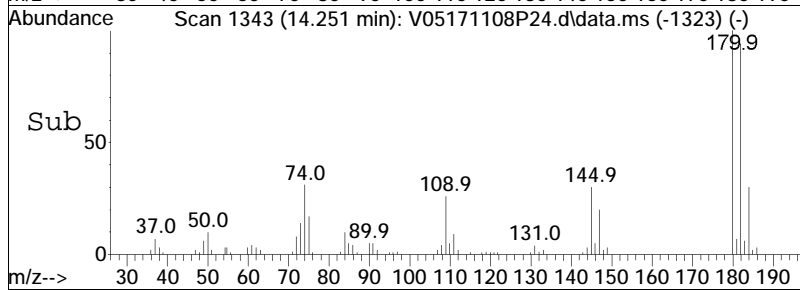
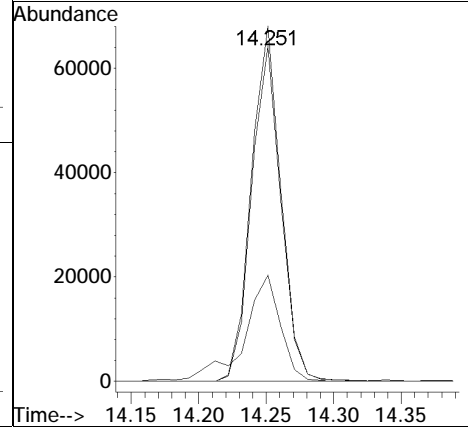
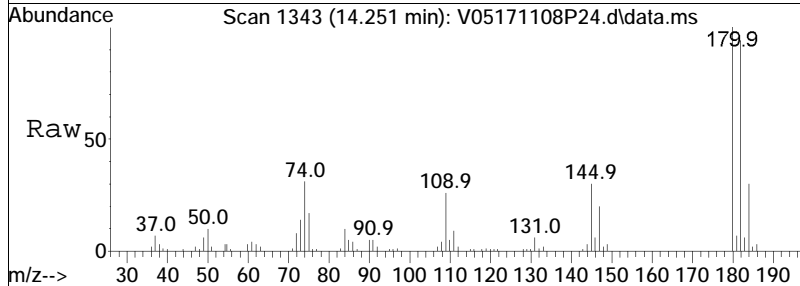
Tgt Ion	Resp	Lower	Upper
155	100		
157	131.5	96.6	145.0

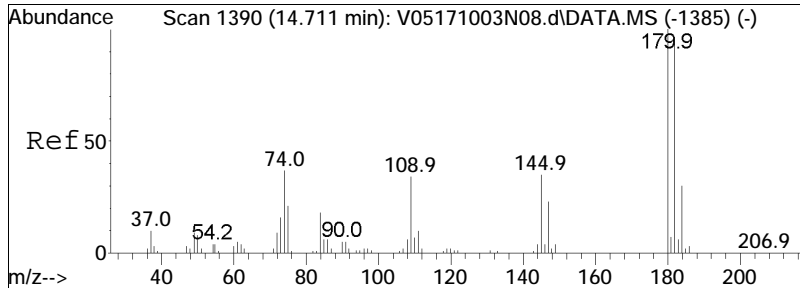




#109
 1,2,4-Trichlorobenzene
 Concen: 10.56 ug/L
 RT: 14.251 min Scan# 1343
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

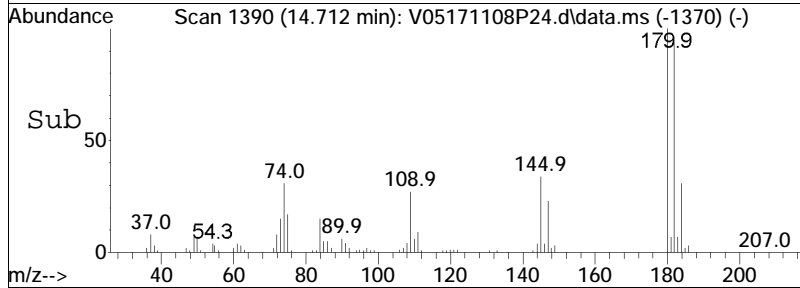
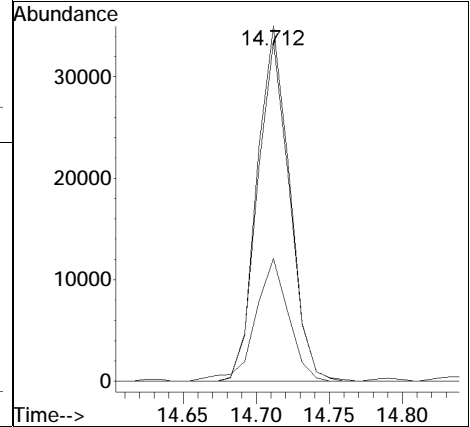
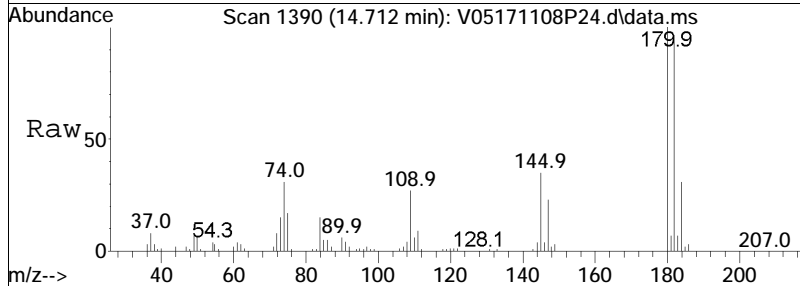
Tgt Ion	Resp	Lower	Upper
180	100		
182	93.9	76.3	114.5
145	36.8	31.0	46.4





#111
 1,2,3-Trichlorobenzene
 Concen: 9.50 ug/L
 RT: 14.712 min Scan# 1390
 Delta R.T. 0.000 min
 Lab File: V05171108P24.d
 Acq: 9 Nov 2017 6:30 am

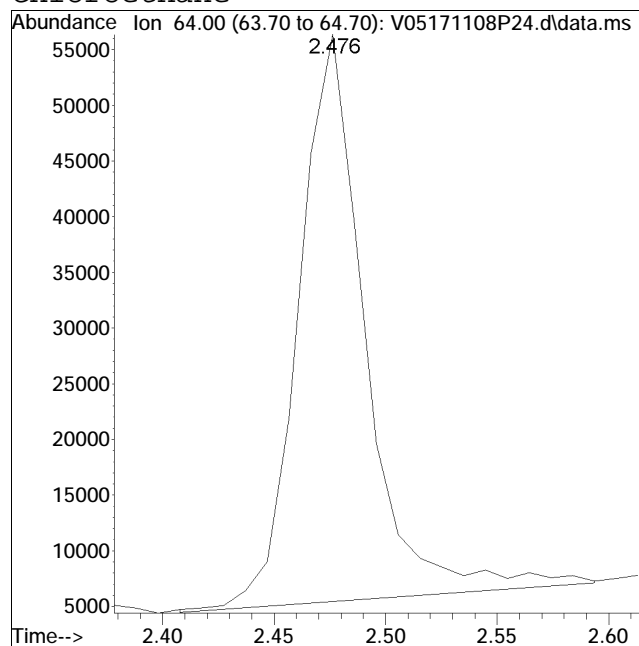
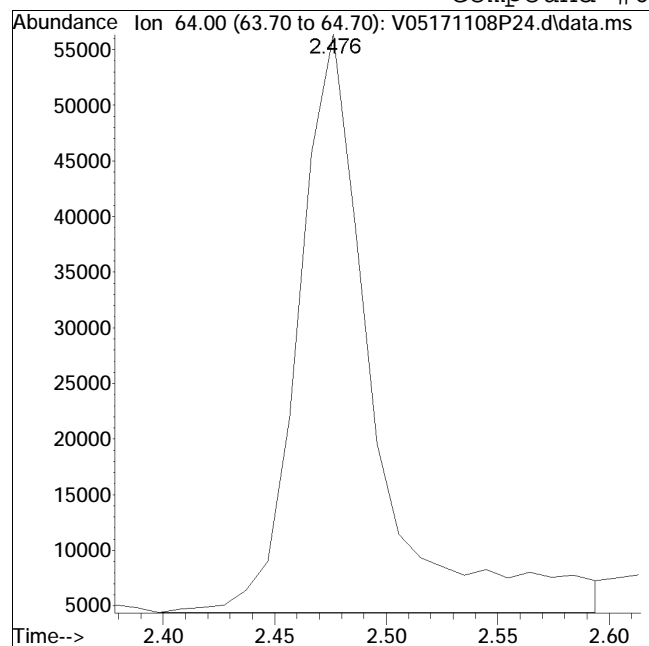
Tgt Ion	Resp	Lower	Upper
180	100		
182	94.8	76.2	114.2
145	35.4	28.2	42.2



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171108P24.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 6:30 am Instrument : VOA 105
Sample : WG1061312-6,31,1,10,,a2 Quant Date : 11/9/2017 7:12 am

Compound #6: Chloroethane



Original Peak Response = 122319

Manual Peak Response = 106618 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P25.d
 Acq On : 9 Nov 2017 6:55 am
 Operator : VOA105:PD
 Sample : WG1061312-7,31,1,10,,a2 (Sig #1); 11740446-03MSD,31,1,10,,a2 (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 09 07:23:58 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Fluorobenzene	6.212	96	880467	10.000	ug/L	0.00	
Standard Area 1 = 1085488			Recovery =	81.11%			
59) Chlorobenzene-d5	9.764	117	634306	10.000	ug/L	0.00	
Standard Area 1 = 758413			Recovery =	83.64%			
79) 1,4-Dichlorobenzene-d4	12.419	152	309532	10.000	ug/L	0.00	
Standard Area 1 = 355962			Recovery =	86.96%			
System Monitoring Compounds							
36) Dibromofluoromethane	5.410	113	216539	8.638	ug/L	0.00	
Spiked Amount 10.000	Range	70 - 130	Recovery =	86.38%			
43) 1,2-Dichloroethane-d4	5.939	65	258655	9.373	ug/L	0.00	
Spiked Amount 10.000	Range	70 - 130	Recovery =	93.73%			
60) Toluene-d8	7.904	98	821498	10.103	ug/L	0.00	
Spiked Amount 10.000	Range	70 - 130	Recovery =	101.03%			
83) 4-Bromofluorobenzene	11.224	95	302997	11.656	ug/L	0.00	
Spiked Amount 10.000	Range	70 - 130	Recovery =	116.56%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.743	85	172071	12.419	ug/L		99
3) Chloromethane	1.938	50	208349	16.730	ug/L		98
4) Vinyl chloride	2.026	62	318190	27.571	ug/L		90
5) Bromomethane	2.349	94	49518	8.037	ug/L		100
6) Chloroethane	2.476	64	106410M1	15.798	ug/L		
7) Trichlorofluoromethane	2.613	101	278598	10.822	ug/L		98
10) 1,1-Dichloroethene	3.122	96	164680	13.349	ug/L		98
11) Carbon disulfide	3.151	76	459189	14.108	ug/L		99
12) Freon-113	3.151	101	162442	11.742	ug/L		92
15) Methylene chloride	3.689	84	179009	12.703	ug/L		100
17) Acetone	3.738	43	27733	12.725	ug/L		92
18) trans-1,2-Dichloroethene	3.845	96	192866	13.208	ug/L		99
19) Methyl acetate	3.855	43	59341	13.405	ug/L		98
20) Methyl tert-butyl ether	3.933	73	274986	11.688	ug/L		97
23) 1,1-Dichloroethane	4.442	63	370645	14.014	ug/L		99
28) cis-1,2-Dichloroethene	4.960	96	1597844	100.810	ug/L		99
30) Bromochloromethane	5.156	128	79687	11.049	ug/L		97
31) Cyclohexane	5.146	56	336349	14.561	ug/L		97
32) Chloroform	5.225	83	345757	11.903	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P25.d
 Acq On : 9 Nov 2017 6:55 am
 Operator : VOA105:PD
 Sample : WG1061312-7,31,1,10,,a2 (Sig #1); 11740446-03MSD,31,1,10,,a2 (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 09 07:23:58 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Carbon tetrachloride	5.352	117	258608	10.238	ug/L	100
37) 1,1,1-Trichloroethane	5.420	97	314134	11.194	ug/L	99
39) 2-Butanone	5.528	43	35027	13.580	ug/L	100
41) Benzene	5.792	78	754779	13.411	ug/L	99
44) 1,2-Dichloroethane	6.007	62	219768	11.464	ug/L	99
47) Methyl cyclohexane	6.369	83	268456	13.220	ug/L	95
48) Trichloroethene	6.388	95	1358078	77.000	ug/L	96
51) 1,2-Dichloropropane	6.946	63	187535	14.559	ug/L	96
54) Bromodichloromethane	7.014	83	231482	11.342	ug/L	99
57) 1,4-Dioxane	7.230	88	31170	595.835	ug/L	95
58) cis-1,3-Dichloropropene	7.709	75	219221	9.758	ug/L	95
61) Toluene	7.963	92	480908	13.312	ug/L	97
62) 4-Methyl-2-pentanone	8.413	58	24538	13.398	ug/L	90
63) Tetrachloroethene	8.413	166	205225	10.278	ug/L	93
65) trans-1,3-Dichloropropene	8.462	75	172811	10.018	ug/L	96
68) 1,1,2-Trichloroethane	8.648	83	107464	13.505	ug/L	99
69) Chlorodibromomethane	8.853	129	123415	10.702	ug/L	98
71) 1,2-Dibromoethane	9.138	107	98862	12.117	ug/L	100
72) 2-Hexanone	9.422	43	38460	10.615	ug/L	93
73) Chlorobenzene	9.784	112	509752	12.316	ug/L	96
74) Ethylbenzene	9.813	91	924277	13.341	ug/L	99
76) p/m Xylene	10.000	106	693461	26.463	ug/L	98
77) o Xylene	10.529	106	645526	25.442	ug/L	98
78) Styrene	10.597	104	1013622	24.799	ug/L	96
80) Bromoform	10.627	173	59793	10.686	ug/L	99
82) Isopropylbenzene	10.901	105	847747	13.307	ug/L	100
87) 1,1,2,2-Tetrachloroethane	11.469	83	104841	14.963	ug/L	100
100) 1,3-Dichlorobenzene	12.341	146	353549	12.576	ug/L	98
101) 1,4-Dichlorobenzene	12.429	146	358801	12.173	ug/L	98
104) 1,2-Dichlorobenzene	12.850	146	290974	12.568	ug/L	98
106) 1,2-Dibromo-3-chloropr...	13.634	155	8554	9.396	ug/L	91
109) 1,2,4-Trichlorobenzene	14.251	180	110216	11.204	ug/L	98
111) 1,2,3-Trichlorobenzene	14.711	180	63792	11.202	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P25.d
 Acq On : 9 Nov 2017 6:55 am
 Operator : VOA105:PD
 Sample : WG1061312-7,31,1,10,,a2 (Sig #1); 11740446-03MSD,31,1,10,,a2 (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 09 07:23:58 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2017\171108P\V05171108P01.d
 Sub List : 8260-Curve - Megamix plus Diox

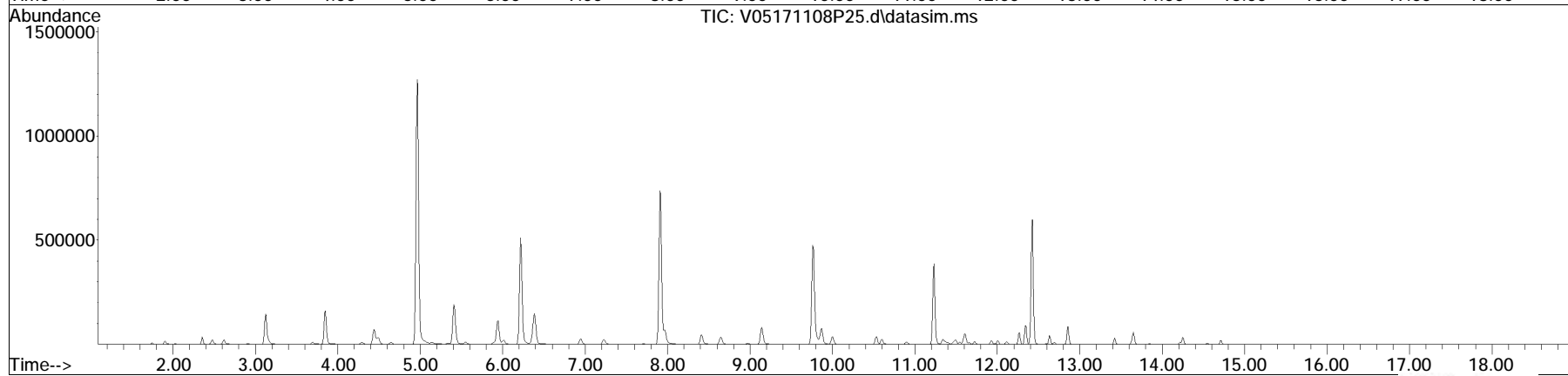
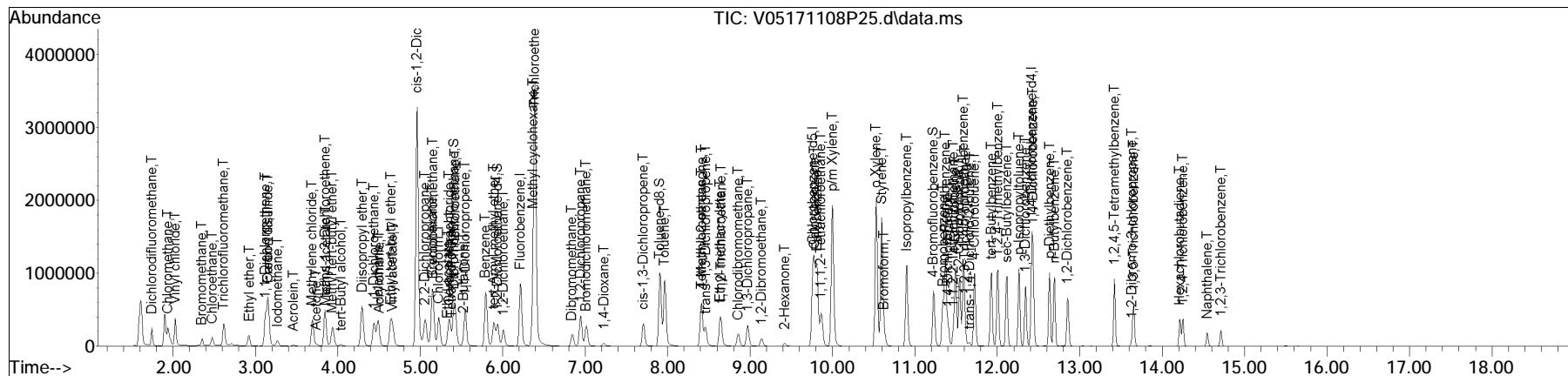
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

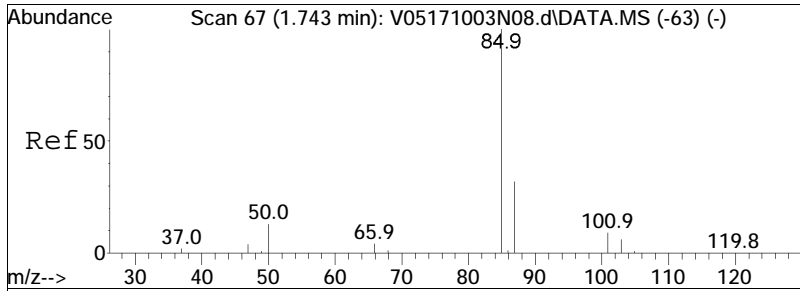
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2017\171108P\
 Data File : V05171108P25.d
 Acq On : 9 Nov 2017 6:55 am
 Operator : VOA105:PD
 Sample : WG1061312-7,31,1,10,,a2 (Sig #1); 11740446-03MSD,31,1,10,,a2 (Sig #2)
 Misc : WG1061312,ICAL14135 (Sig #1); WG,ICAL14135 (Sig #2)
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 09 07:23:58 2017
 Quant Method : I:\VOLATILES\VOA105\2017\171108P\V105_171026N_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Thu Oct 26 21:10:14 2017
 Response via : Initial Calibration

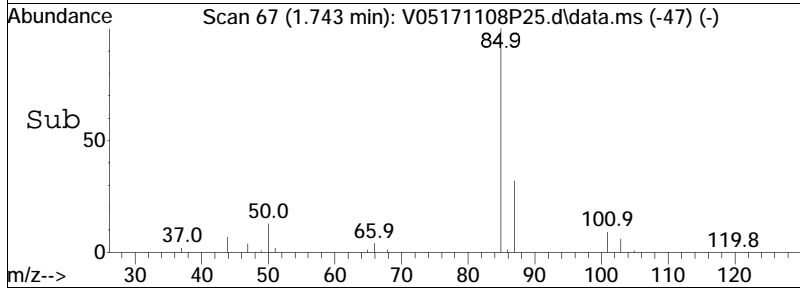
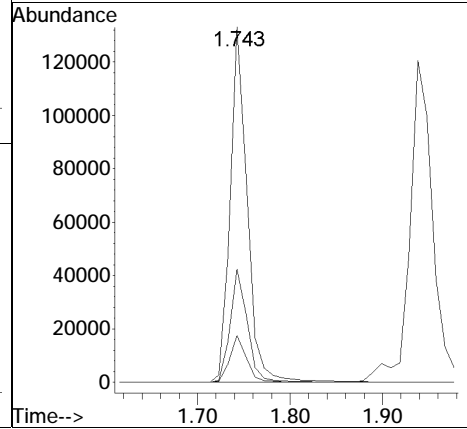
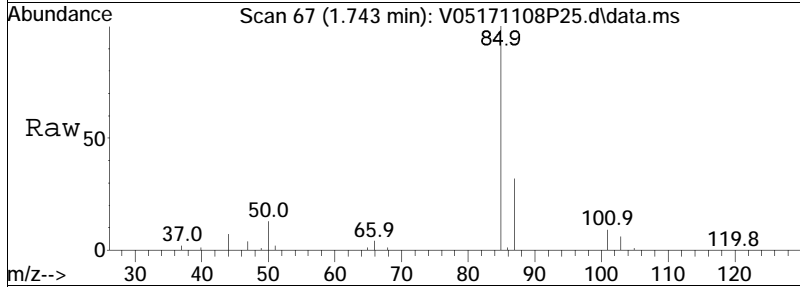
Sub List : 8260-Curve - Megamix plus Diox71108P\V05171108P01.d•

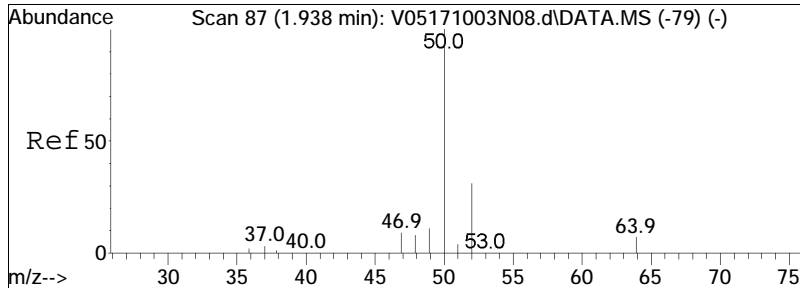




#2
 Dichlorodifluoromethane
 Concen: 12.42 ug/L
 RT: 1.743 min Scan# 67
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

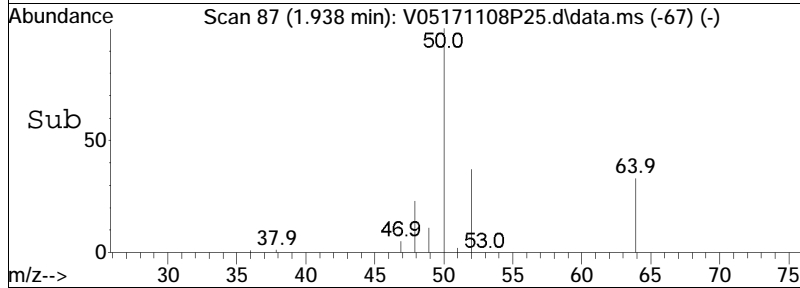
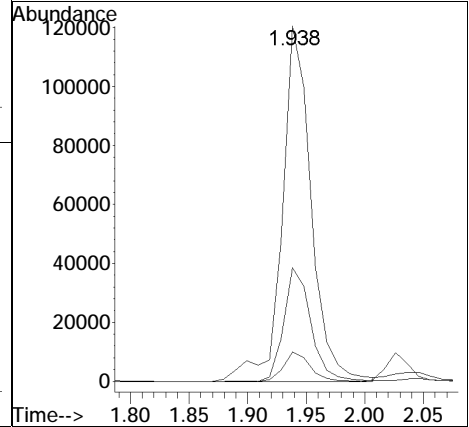
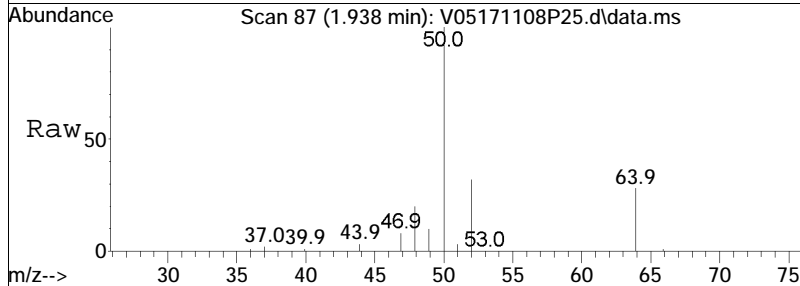
Tgt Ion	Resp	Lower	Upper
85	172071		
85	100		
87	32.1	21.3	44.1
50	13.0	8.7	18.1

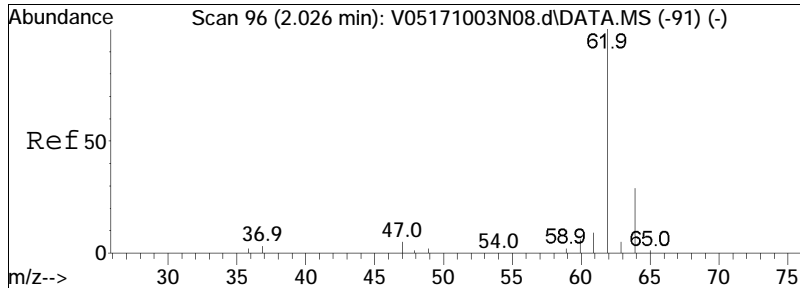




#3
 Chloromethane
 Concen: 16.73 ug/L
 RT: 1.938 min Scan# 87
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

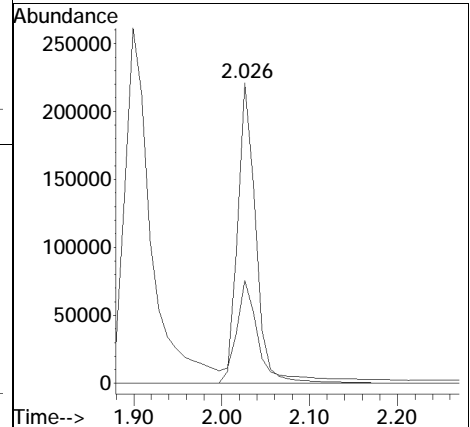
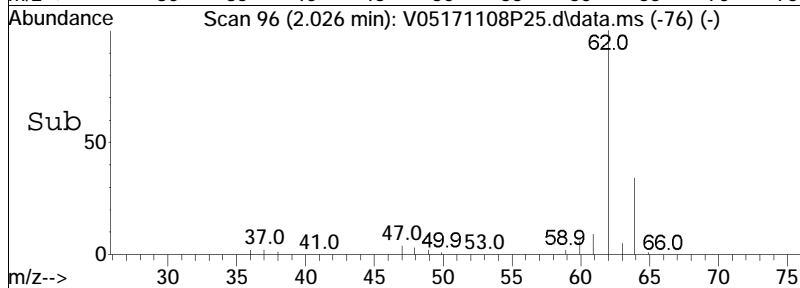
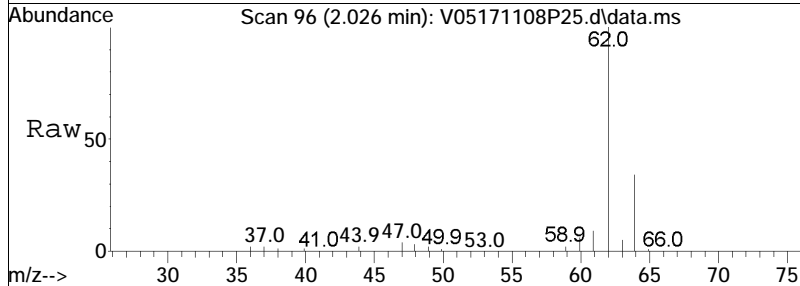
Tgt Ion	Resp	Lower	Upper
50	208349		
52	29.8	11.4	51.4
47	7.6	0.0	28.0

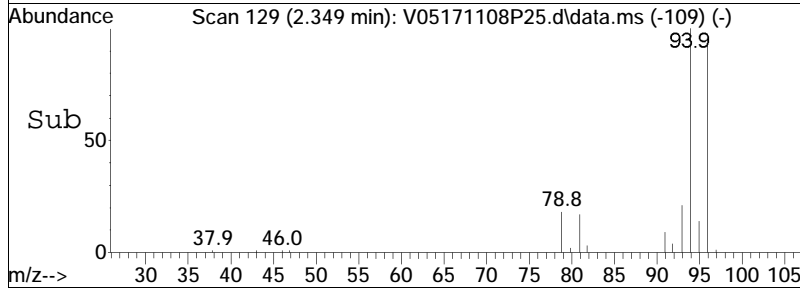
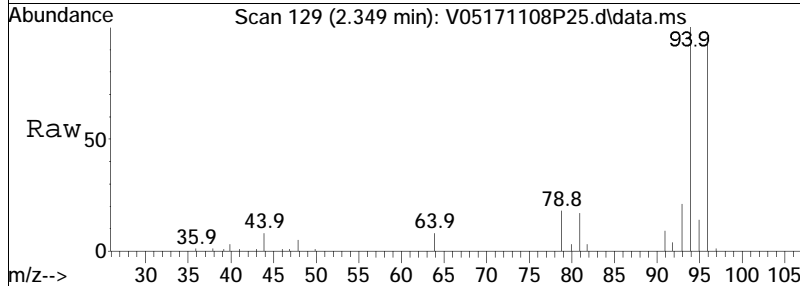
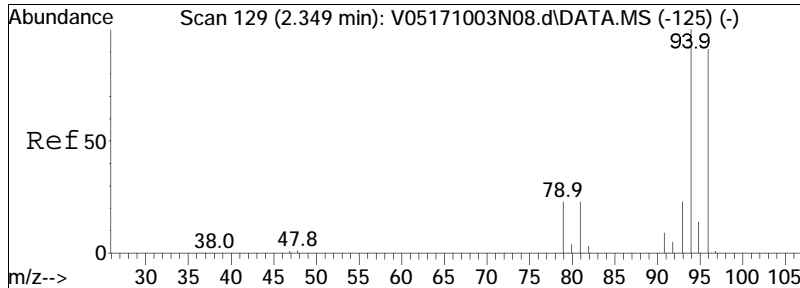




#4
 Vinyl chloride
 Concen: 27.57 ug/L
 RT: 2.026 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

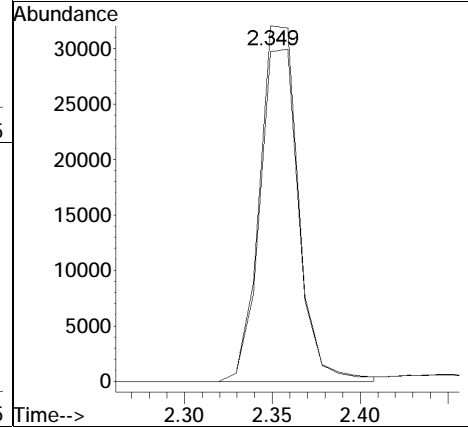
Tgt Ion	Resp	Lower	Upper
62	318190		
64	100		
64	39.5	13.8	53.8

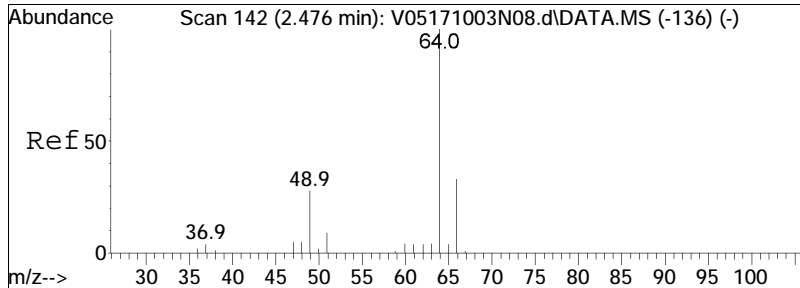




#5
 Bromomethane
 Concen: 8.04 ug/L
 RT: 2.349 min Scan# 129
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

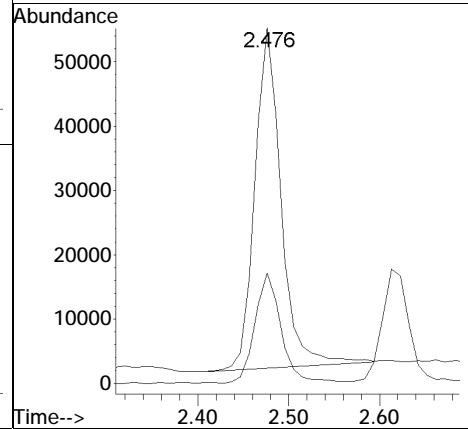
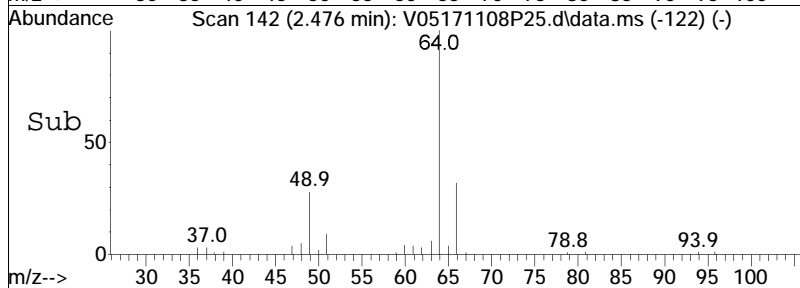
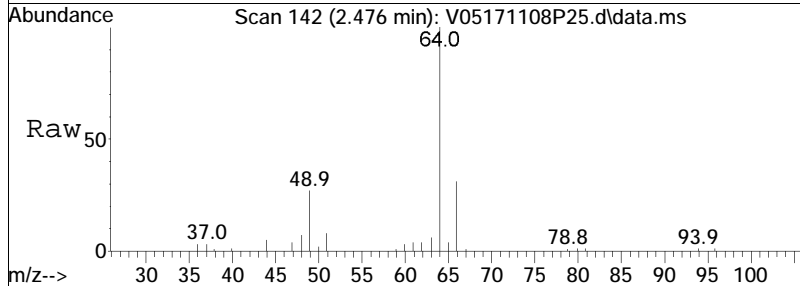
Tgt Ion: 94 Resp: 49518
 Ion Ratio Lower Upper
 94 100
 96 93.1 73.1 113.1

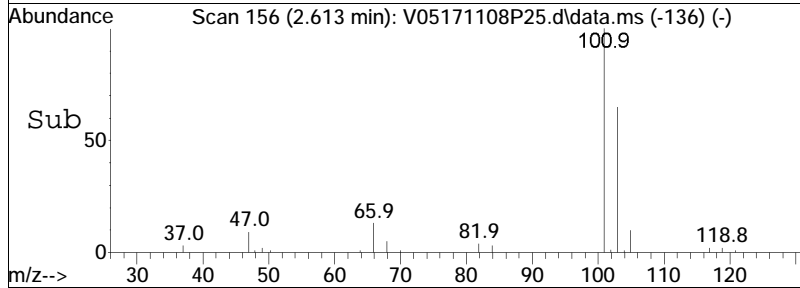
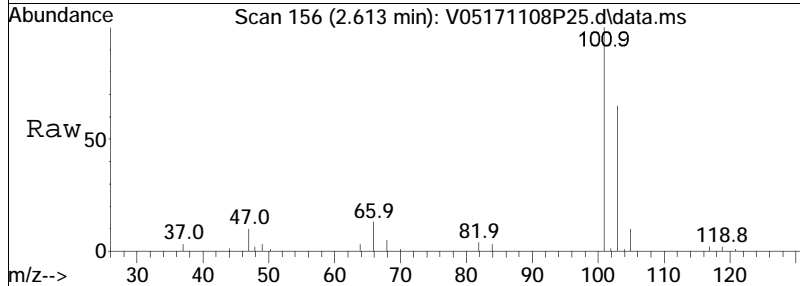
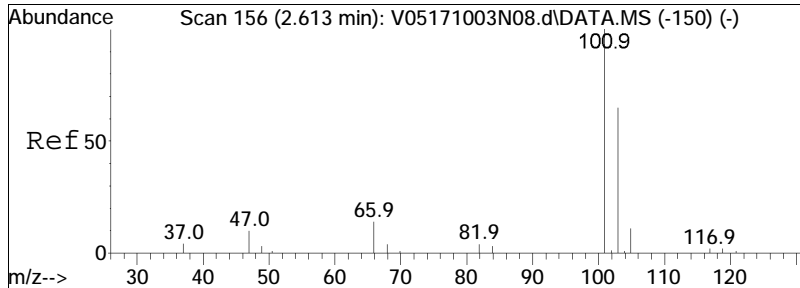




#6
 Chloroethane
 Concen: 15.80 ug/L M1
 RT: 2.476 min Scan# 142
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

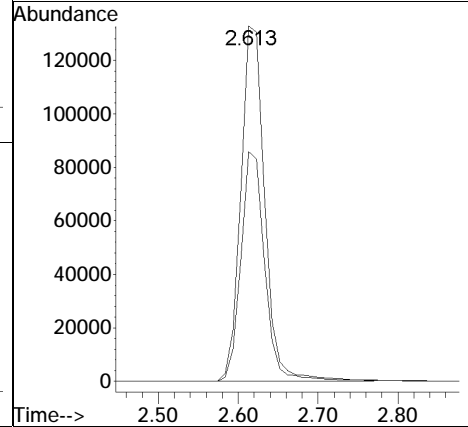
Tgt Ion:	Resp:	Lower	Upper
64	106410		
66	32.8	13.7	53.7

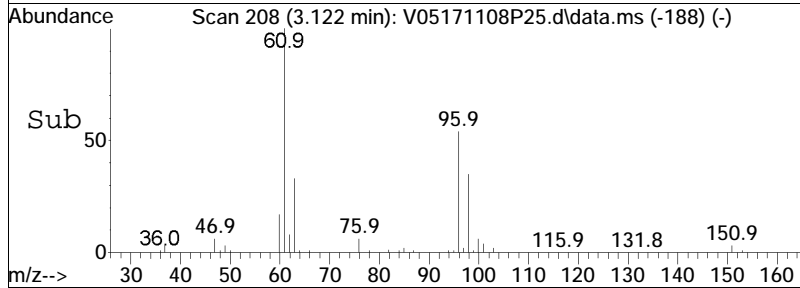
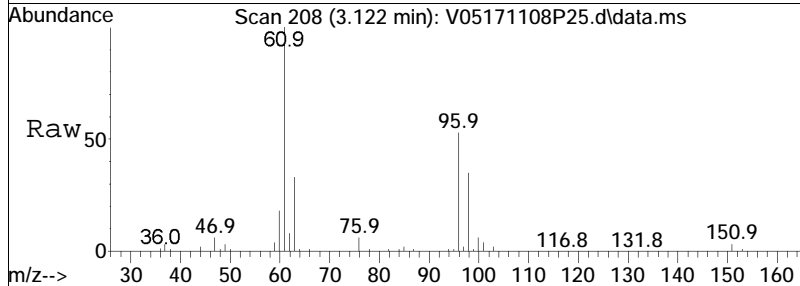
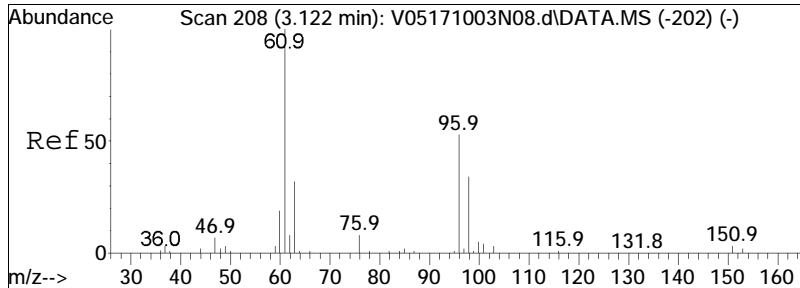




#7
 Trichlorofluoromethane
 Concen: 10.82 ug/L
 RT: 2.613 min Scan# 156
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

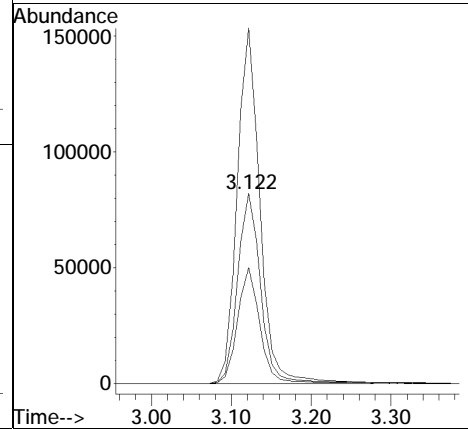
Tgt Ion	Resp	Lower	Upper
101	278598		
101	100		
103	64.3	52.6	79.0

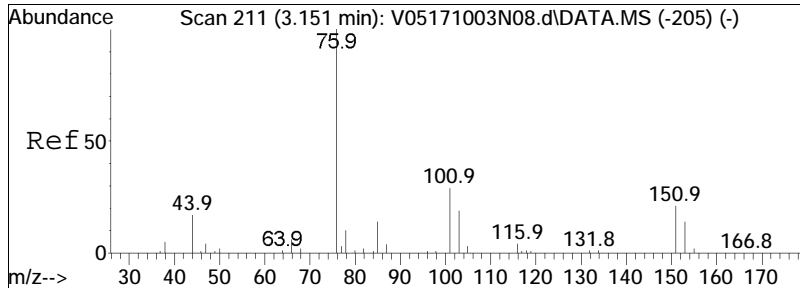




#10
 1,1-Dichloroethene
 Concen: 13.35 ug/L
 RT: 3.122 min Scan# 208
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

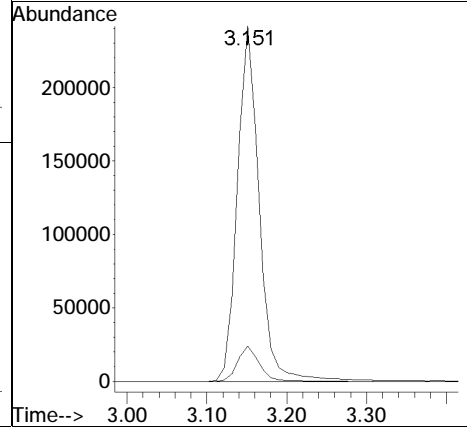
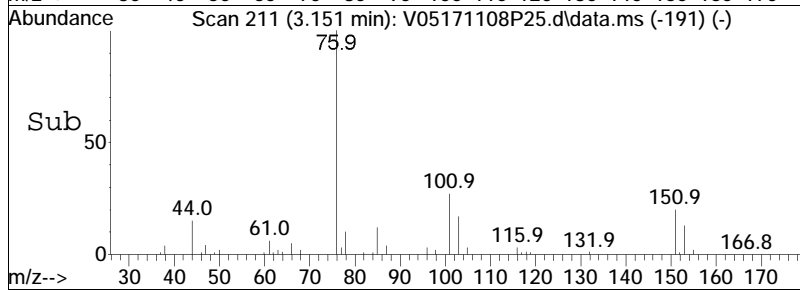
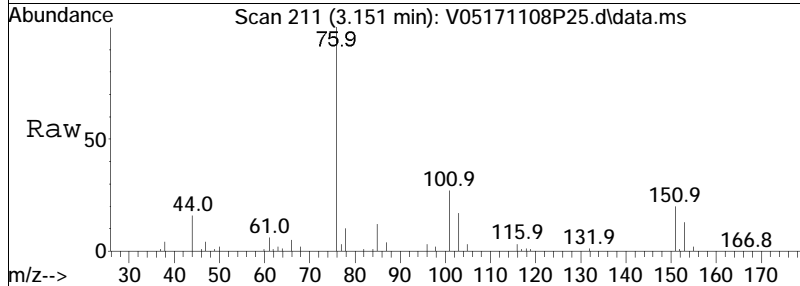
Tgt Ion	Resp	Lower	Upper
96	164680		
61	184.7	151.0	226.4
63	58.9	47.7	71.5

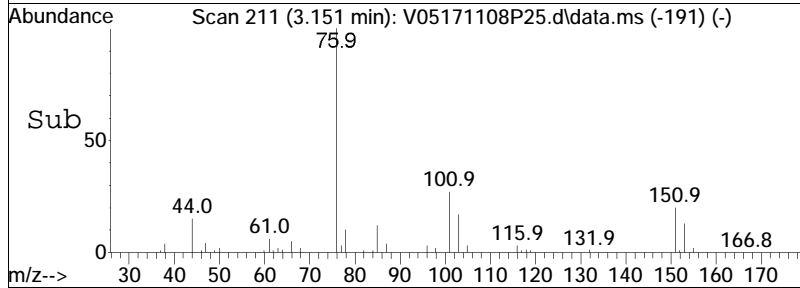
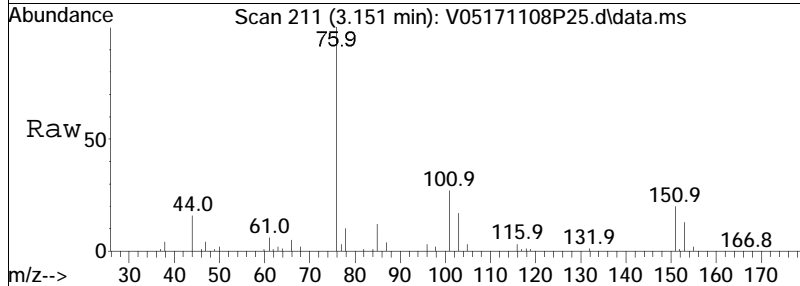
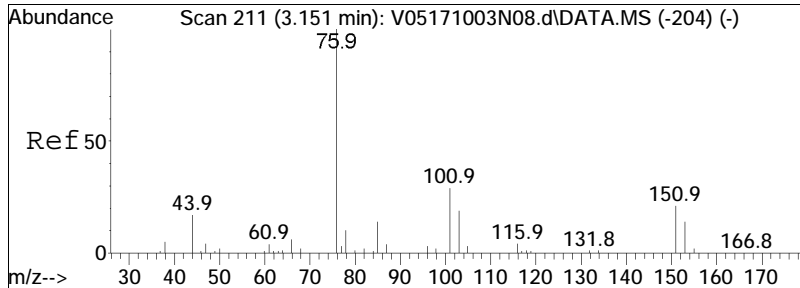




#11
 Carbon disulfide
 Concen: 14.11 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

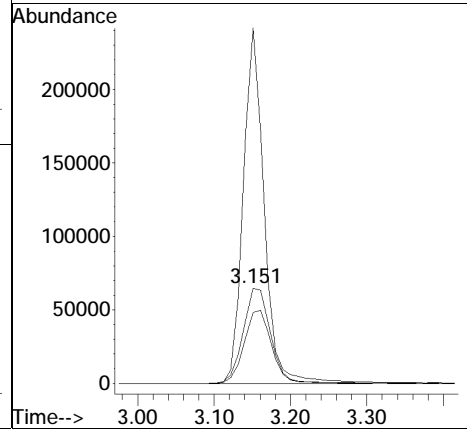
Tgt Ion	Resp	Lower	Upper
76	459189		
76	100		
78	10.0	6.7	13.9

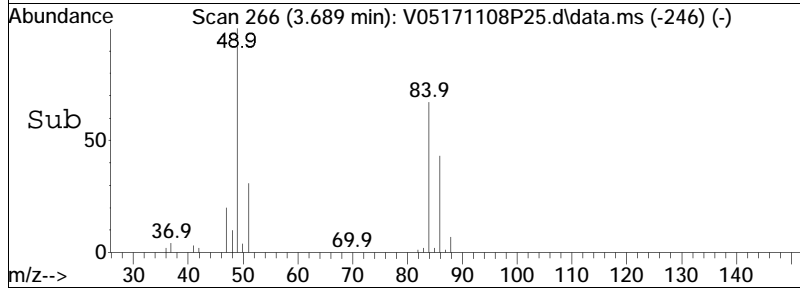
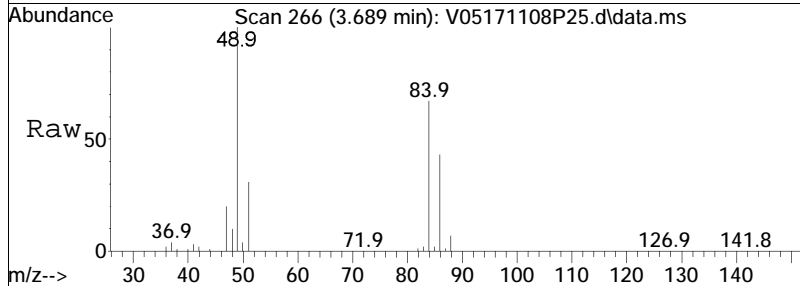
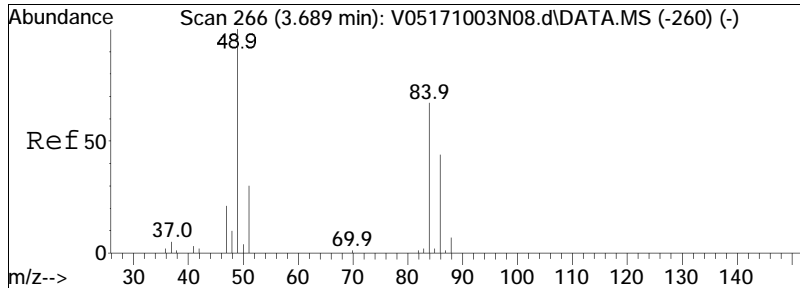




#12
 Freon-113
 Concen: 11.74 ug/L
 RT: 3.151 min Scan# 211
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

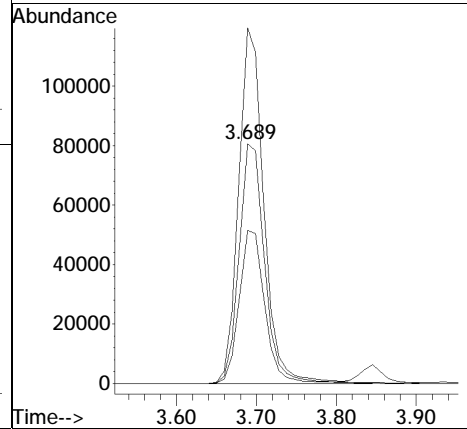
Tgt Ion	Resp	Lower	Upper
101	162442		
101	100		
151	76.9	59.2	88.8
76	282.7	213.0	319.4

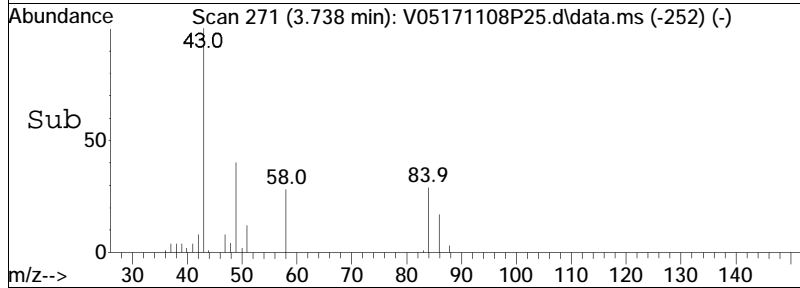
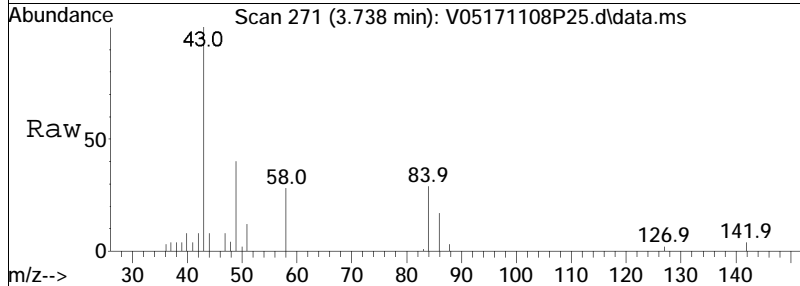
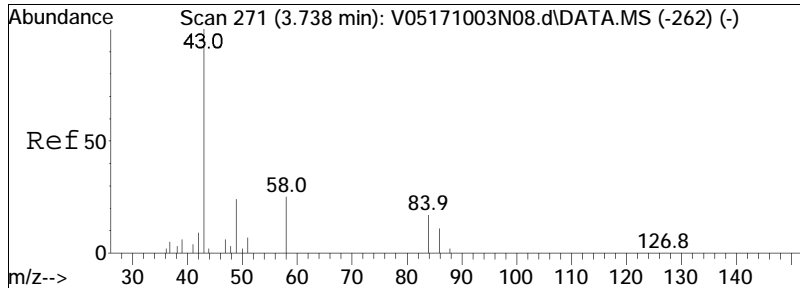




#15
 Methylene chloride
 Concen: 12.70 ug/L
 RT: 3.689 min Scan# 266
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

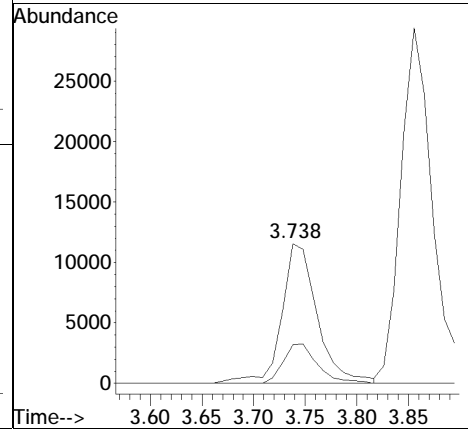
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
84	100		
86	64.3	41.9	86.9
49	145.7	95.1	197.5

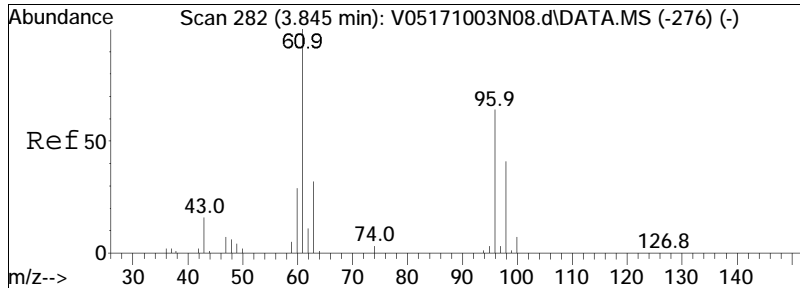




#17
 Acetone
 Concen: 12.72 ug/L
 RT: 3.738 min Scan# 271
 Delta R.T. -0.010 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

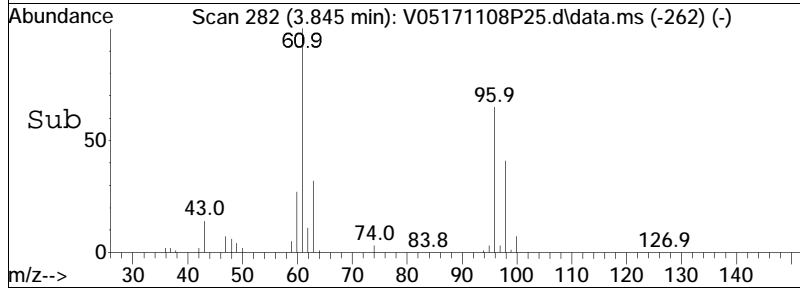
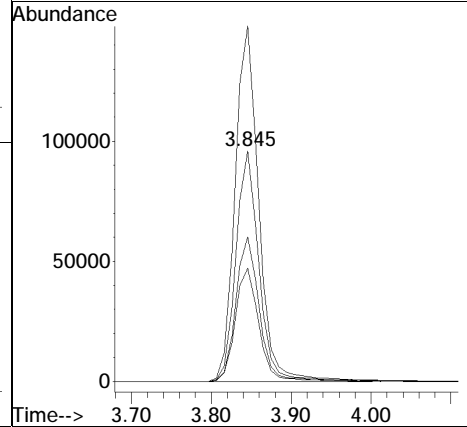
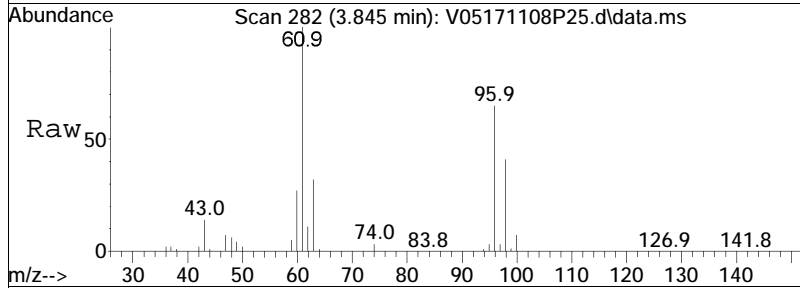
Tgt Ion:	Resp:	Lower	Upper
43	27733		
58	27.2	18.5	27.7

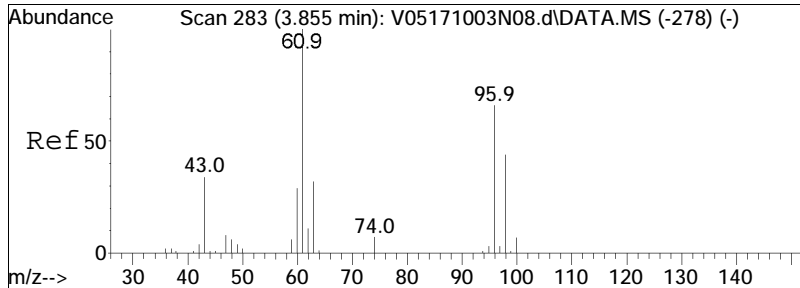




#18
 trans-1,2-Dichloroethene
 Concen: 13.21 ug/L
 RT: 3.845 min Scan# 282
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

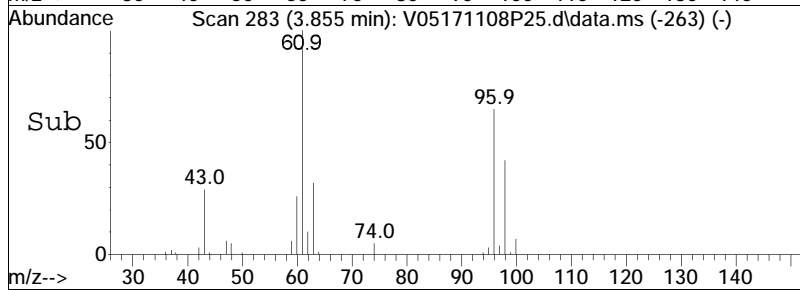
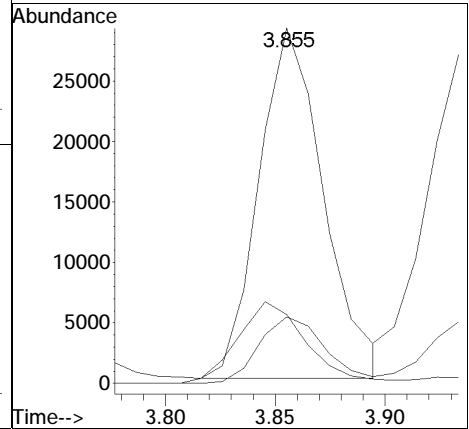
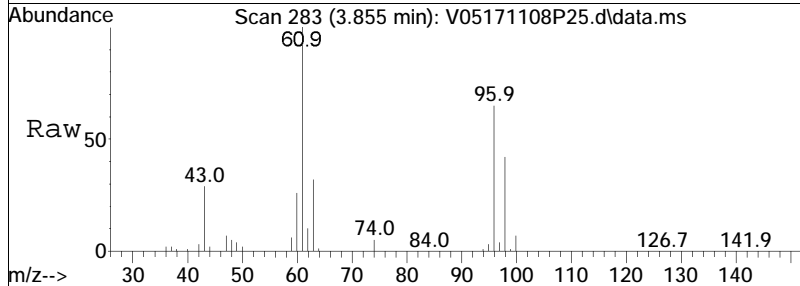
Tgt Ion	Resp	Lower	Upper
96	192866		
61	157.9	102.0	211.8
98	63.6	41.9	87.1
63	50.3	32.6	67.8

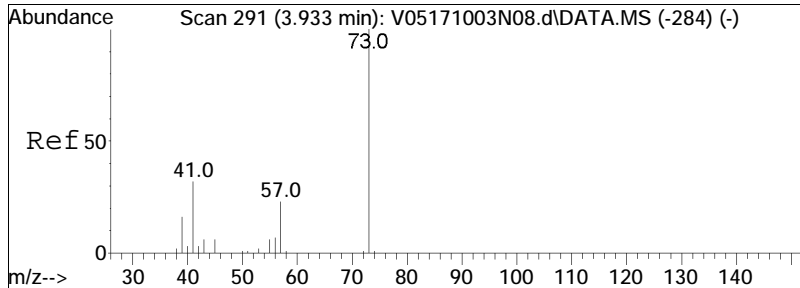




#19
 Methyl acetate
 Concen: 13.41 ug/L
 RT: 3.855 min Scan# 283
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

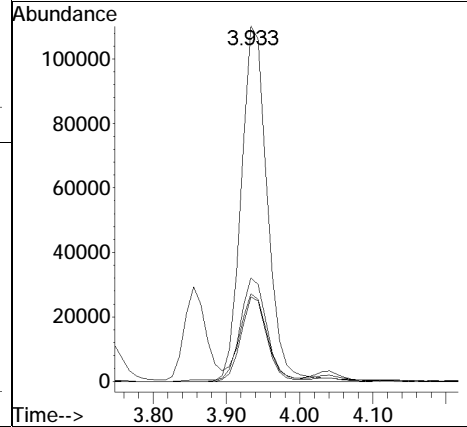
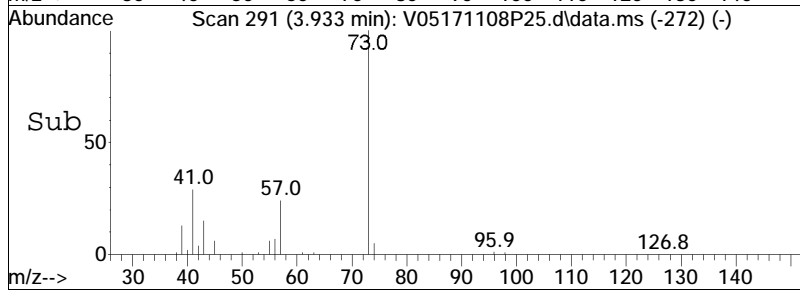
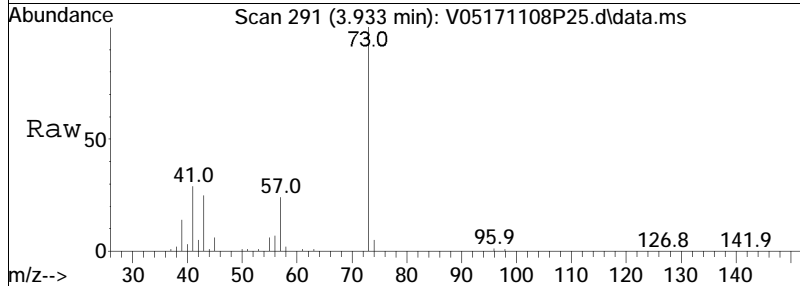
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
43	100		
74	19.5	15.3	22.9
59	24.8	18.6	28.0

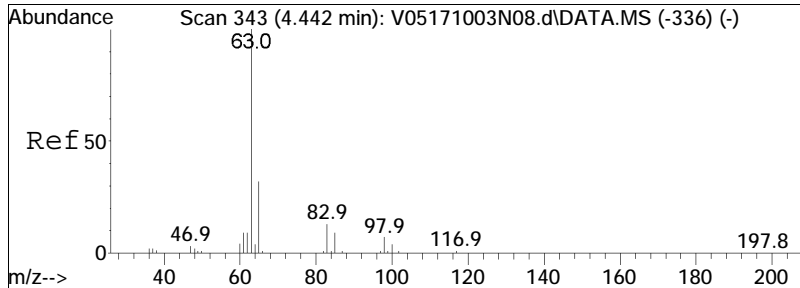




#20
 Methyl tert-butyl ether
 Concen: 11.69 ug/L
 RT: 3.933 min Scan# 291
 Delta R.T. -0.010 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

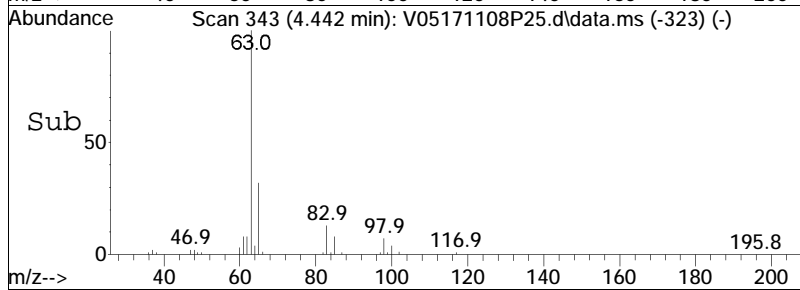
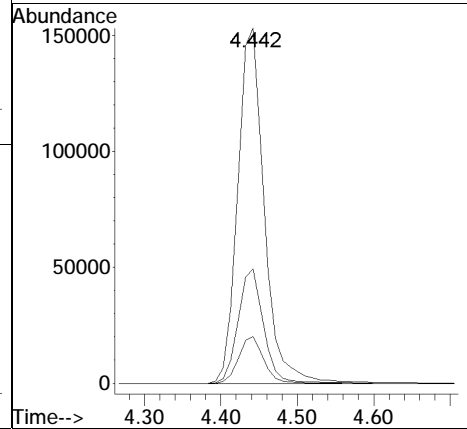
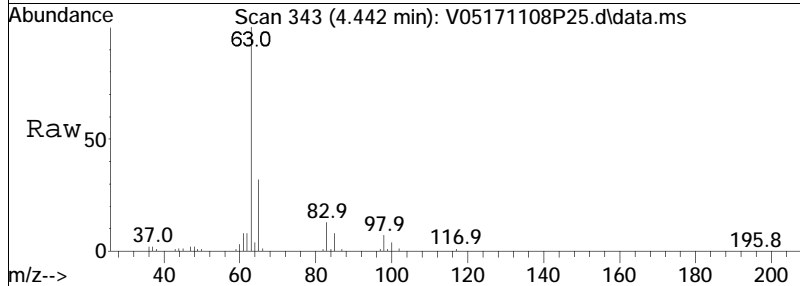
Tgt Ion	Resp	Lower	Upper
73	100		
57	23.3	14.3	29.7
43	24.8	16.8	35.0
41	29.7	20.9	43.3

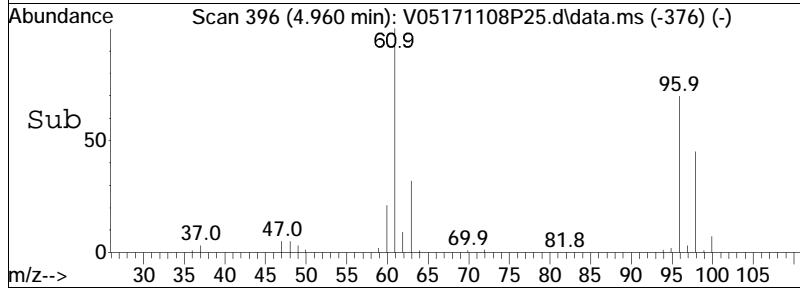
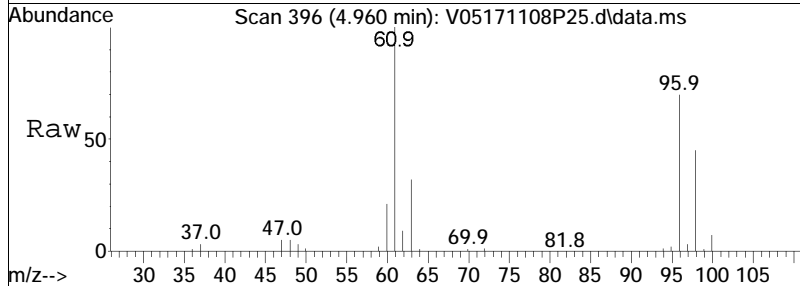
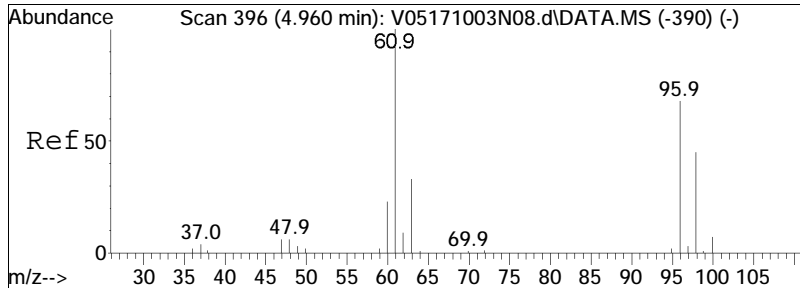




#23
 1,1-Dichloroethane
 Concen: 14.01 ug/L
 RT: 4.442 min Scan# 343
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

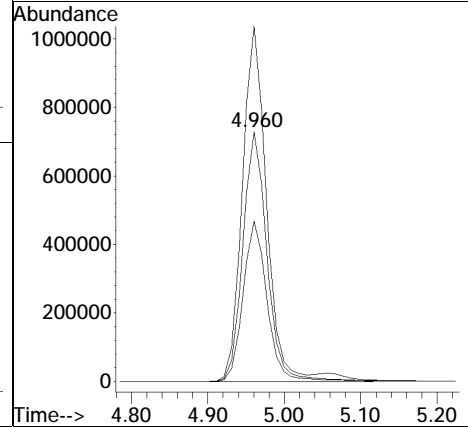
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
63	100		
65	30.9	11.6	51.6
83	12.5	0.0	33.0

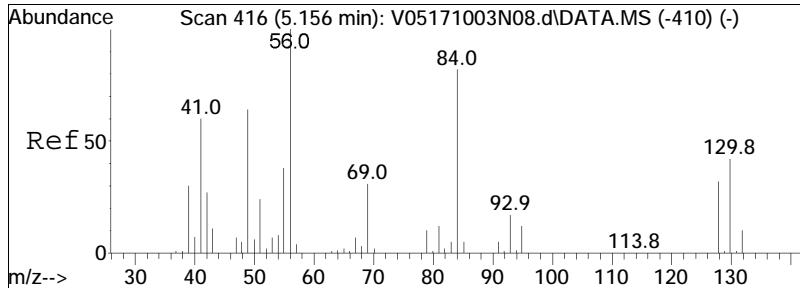




#28
 cis-1,2-Dichloroethene
 Concen: 100.81 ug/L
 RT: 4.960 min Scan# 396
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

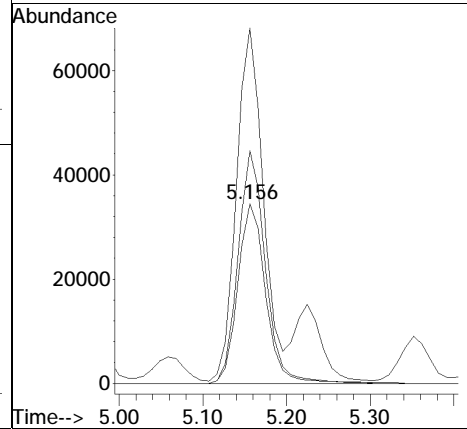
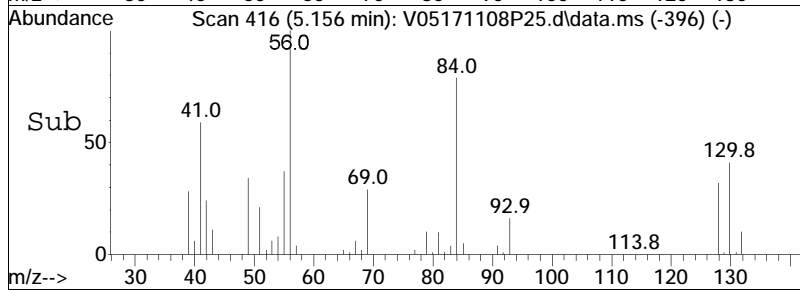
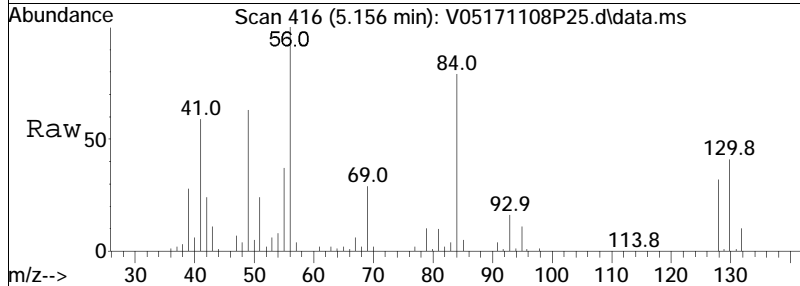
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
96	100		
61	140.3	113.7	170.5
98	64.1	51.2	76.8

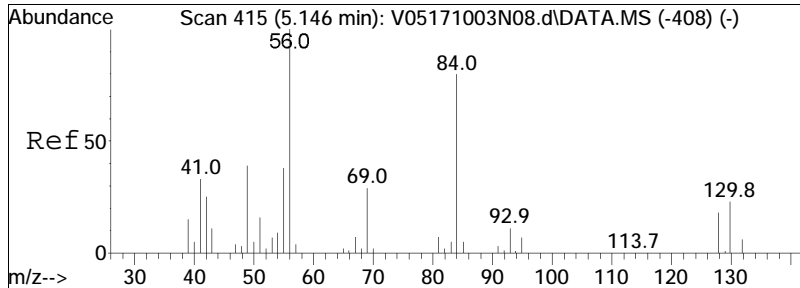




#30
 Bromochloromethane
 Concen: 11.05 ug/L
 RT: 5.156 min Scan# 416
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

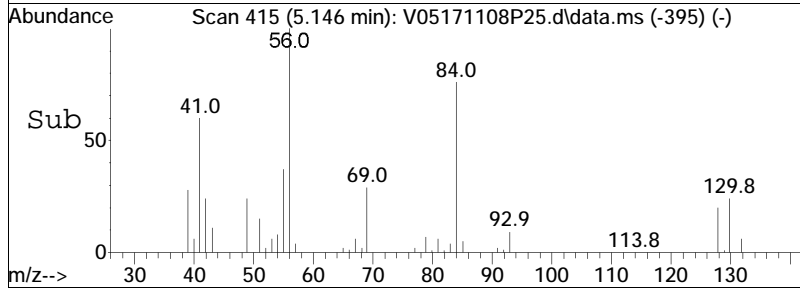
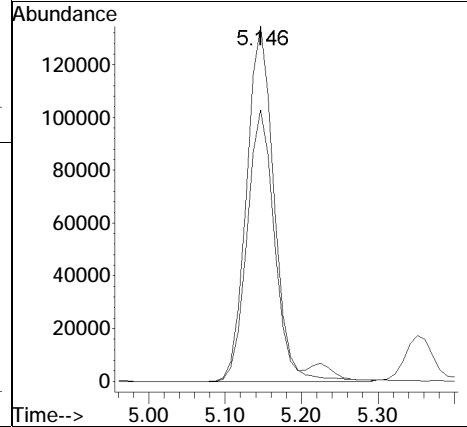
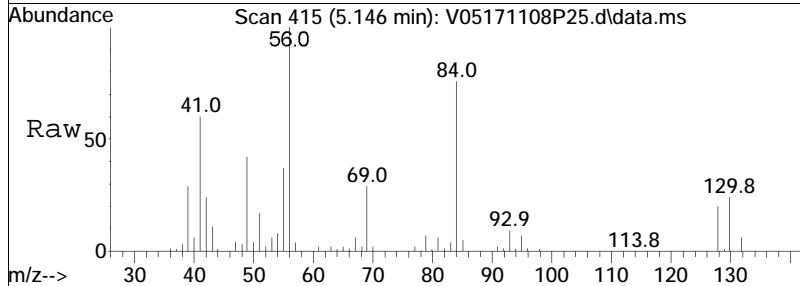
Tgt Ion	Resp	Lower	Upper
128	79687		
128	100		
49	187.9	155.4	233.0
130	127.4	101.9	152.9

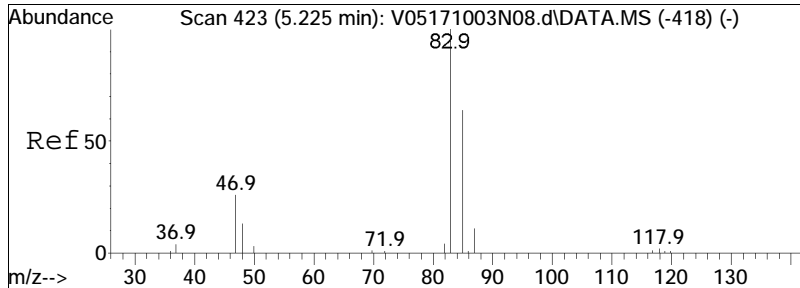




#31
 Cyclohexane
 Concen: 14.56 ug/L
 RT: 5.146 min Scan# 415
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

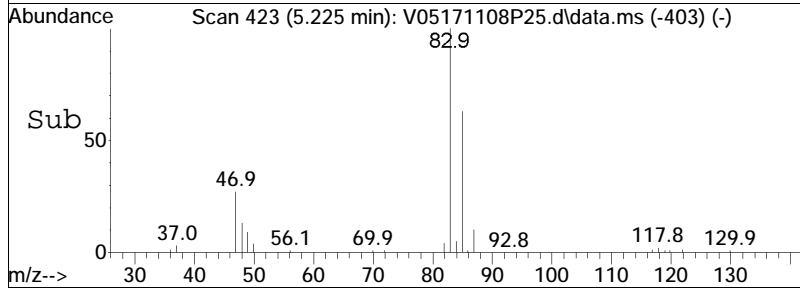
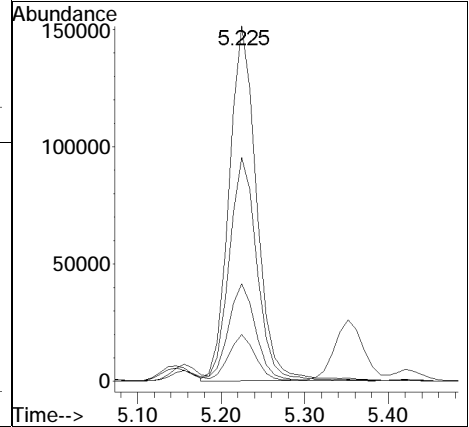
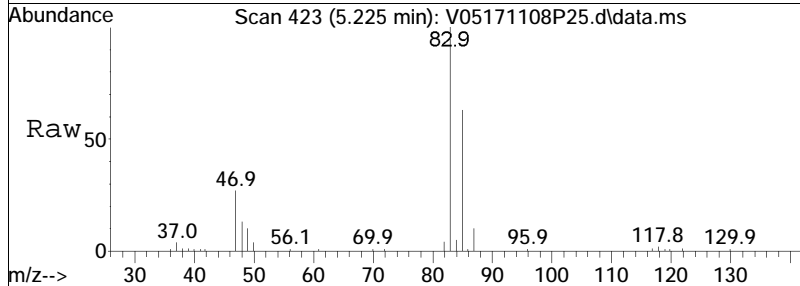
Tgt Ion	Resp	Lower	Upper
56	100		
84	75.8	51.3	106.5

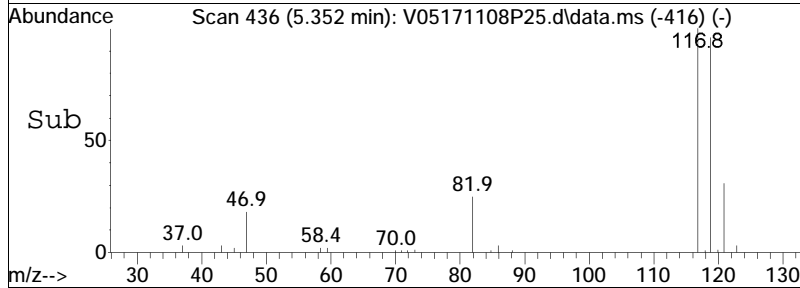
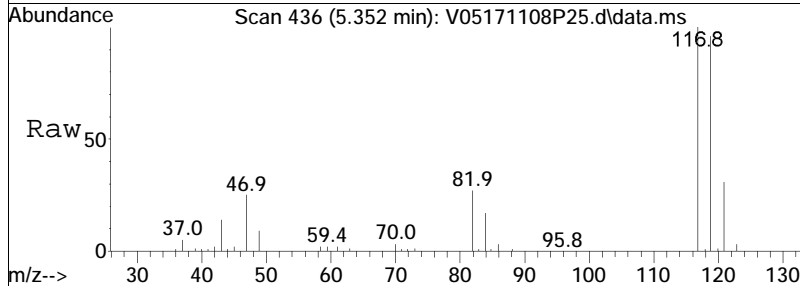
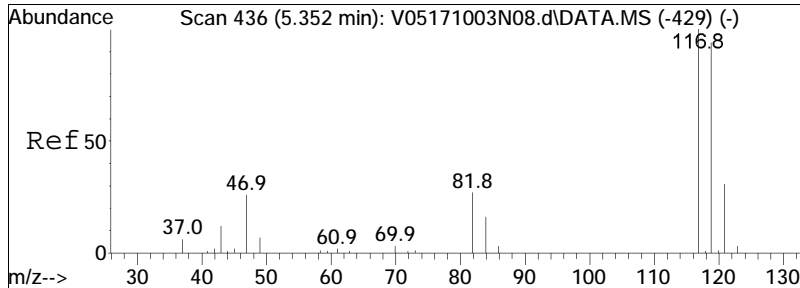




#32
 Chloroform
 Concen: 11.90 ug/L
 RT: 5.225 min Scan# 423
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

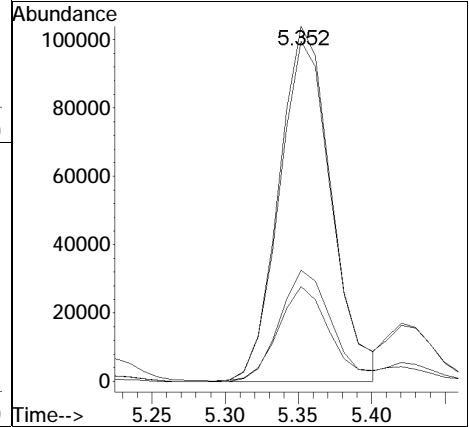
Tgt Ion	Resp	Lower	Upper
83	345757		
83	100		
85	63.7	42.4	88.2
47	26.1	17.9	37.1
48	12.6	9.1	18.9

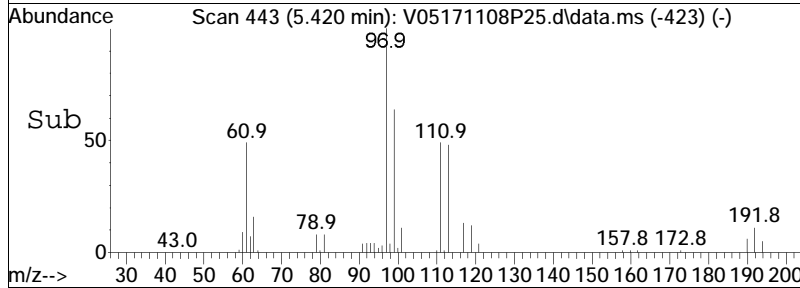
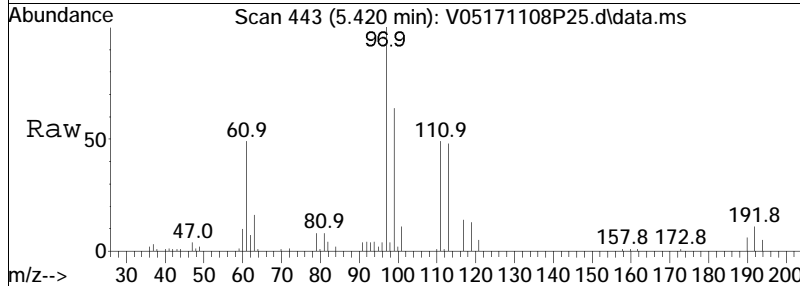
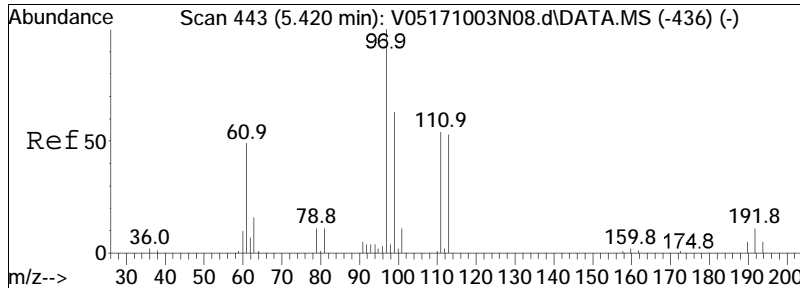




#34
 Carbon tetrachloride
 Concen: 10.24 ug/L
 RT: 5.352 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

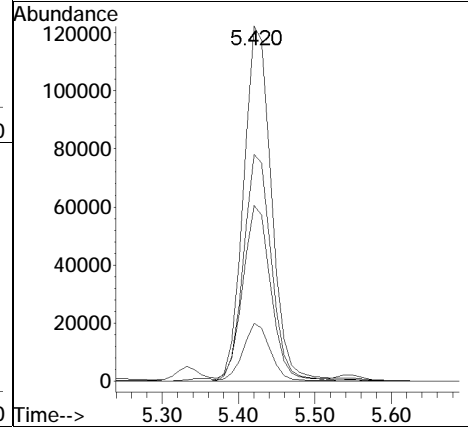
Tgt Ion	Resp	Lower	Upper
117	258608		
117	100		
119	95.9	62.2	129.2
121	30.9	20.2	41.9
82	26.3	17.6	36.6

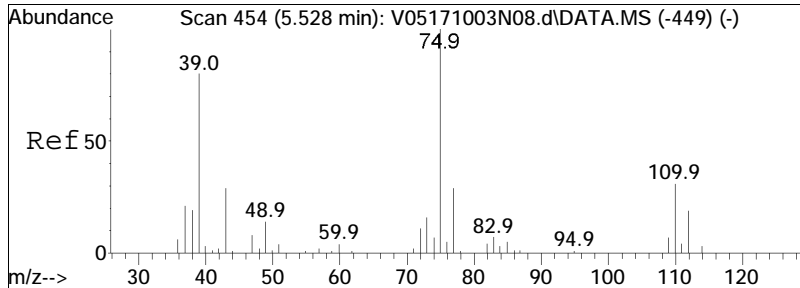




#37
 1,1,1-Trichloroethane
 Concen: 11.19 ug/L
 RT: 5.420 min Scan# 443
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

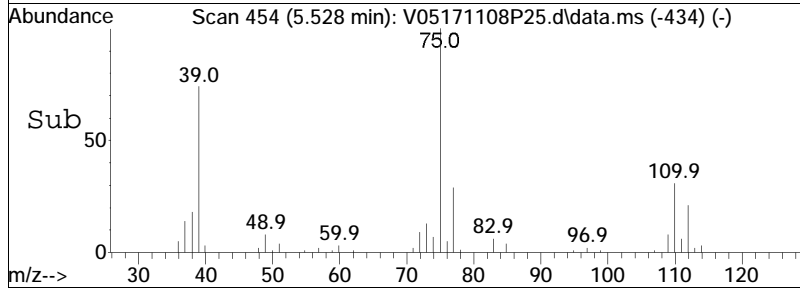
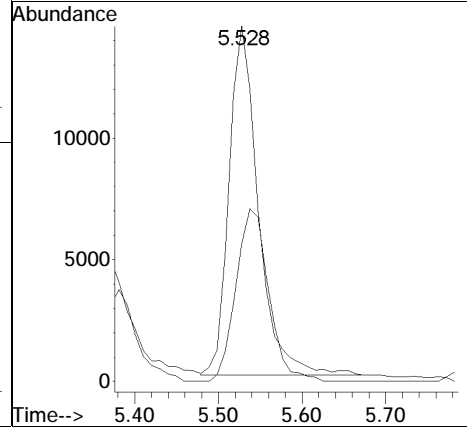
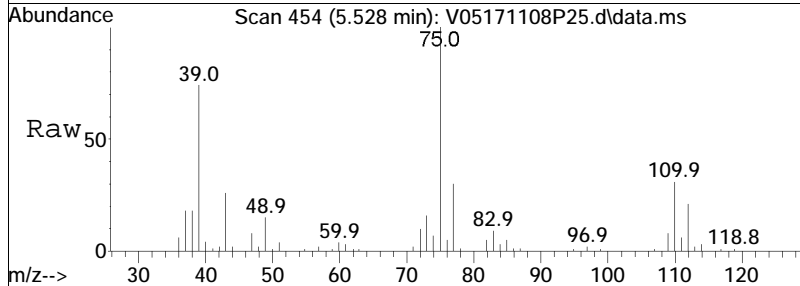
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
97	100		
99	63.7	42.3	87.9
61	48.1	31.3	64.9
63	15.4	10.1	20.9

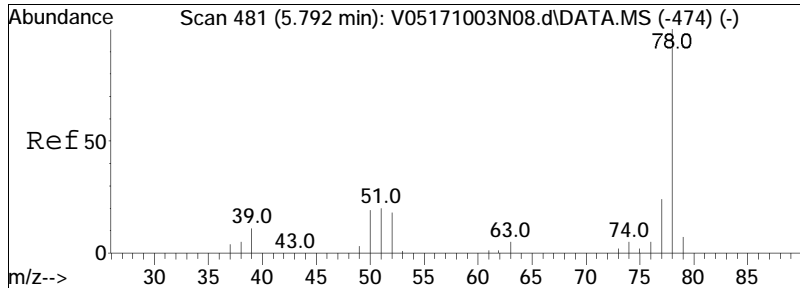




#39
 2-Butanone
 Concen: 13.58 ug/L
 RT: 5.528 min Scan# 454
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

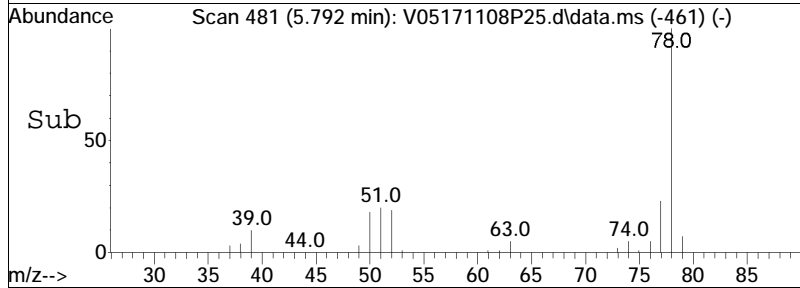
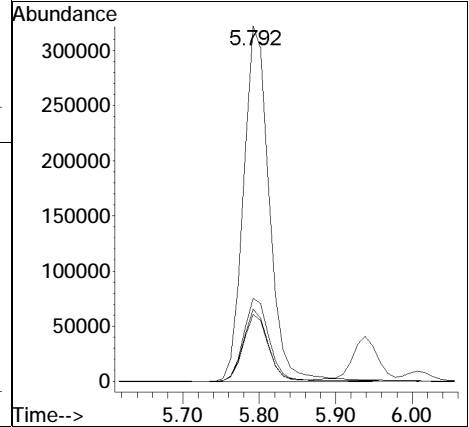
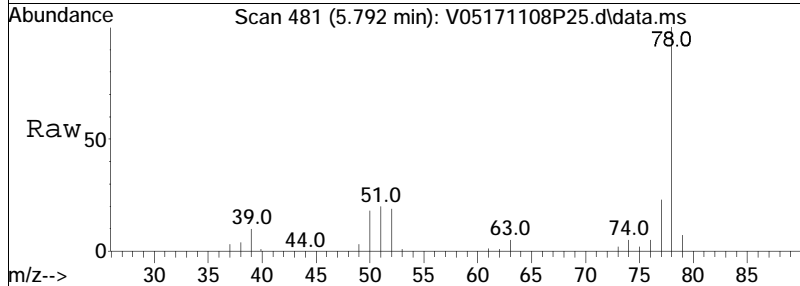
Tgt Ion: 43 Resp: 35027
 Ion Ratio Lower Upper
 43 100
 72 55.2 44.2 66.4

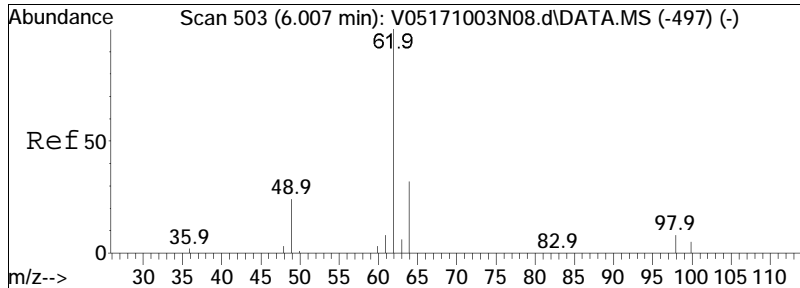




#41
Benzene
Concen: 13.41 ug/L
RT: 5.792 min Scan# 481
Delta R.T. -0.000 min
Lab File: V05171108P25.d
Acq: 9 Nov 2017 6:55 am

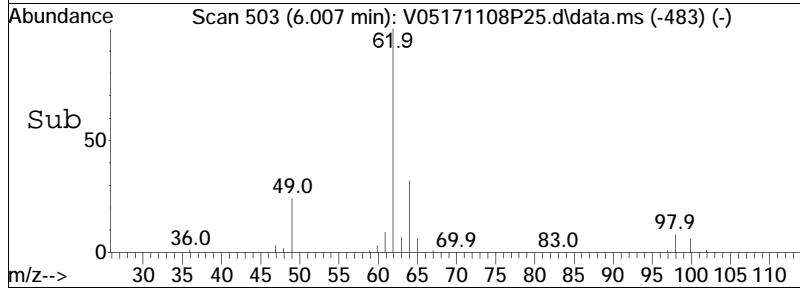
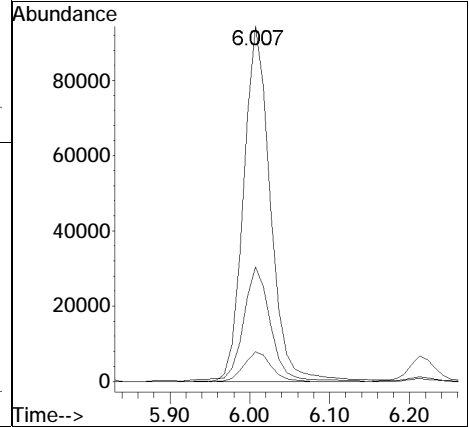
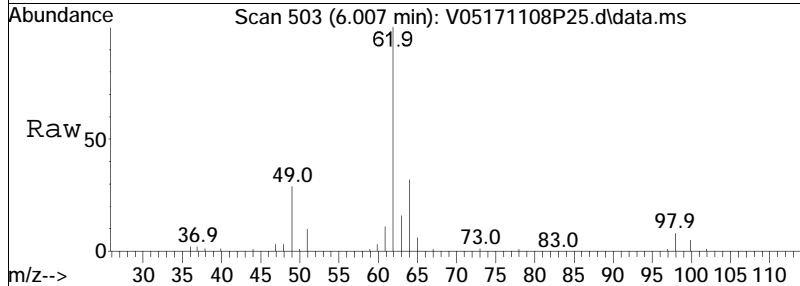
Tgt Ion	Resp	Lower	Upper
78	100		
77	23.5	15.3	31.9
51	19.4	12.5	25.9
52	18.4	11.4	23.6

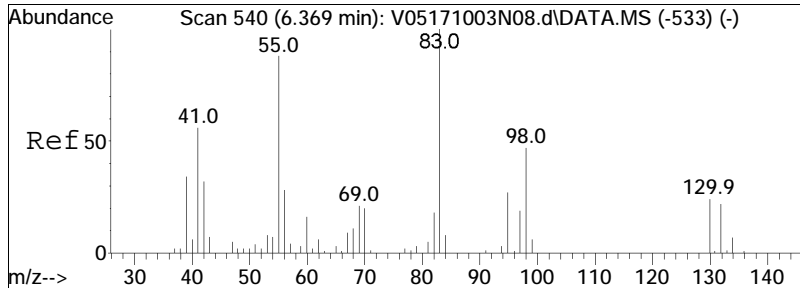




#44
 1,2-Dichloroethane
 Concen: 11.46 ug/L
 RT: 6.007 min Scan# 503
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

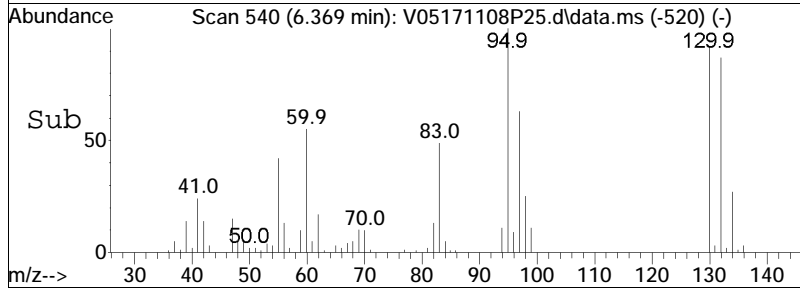
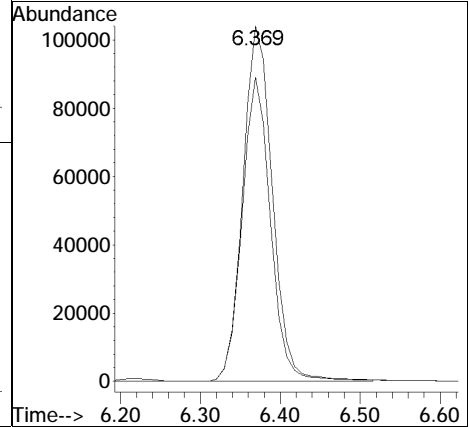
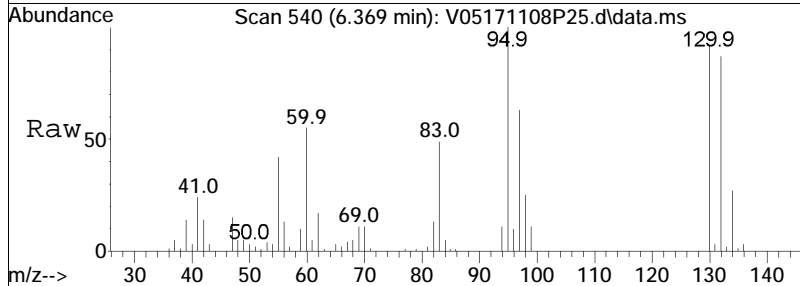
Tgt Ion	Resp	Lower	Upper
62	219768		
62	100		
64	32.9	13.1	53.1
98	8.4	0.0	27.8

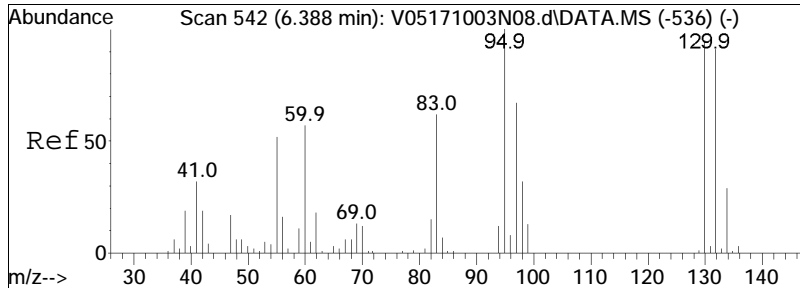




#47
 Methyl cyclohexane
 Concen: 13.22 ug/L
 RT: 6.369 min Scan# 540
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

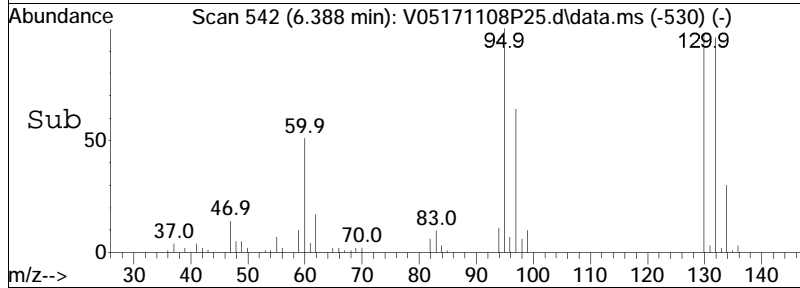
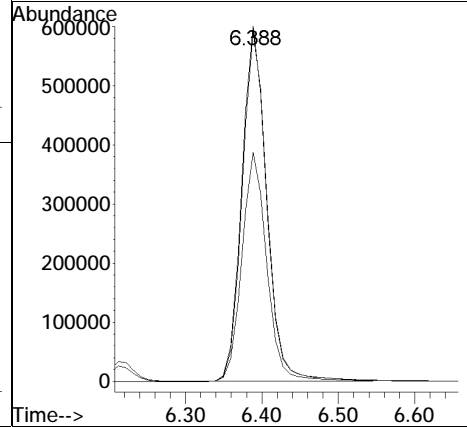
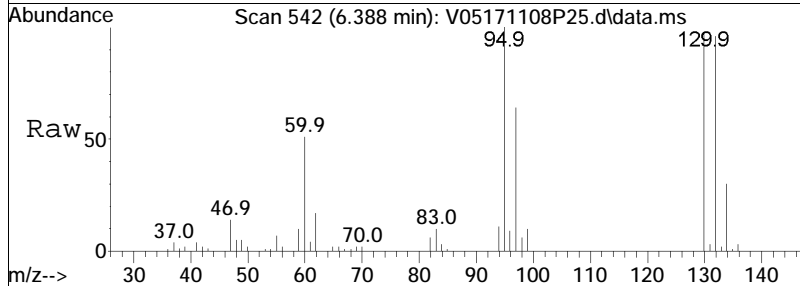
Tgt Ion	Resp	Lower	Upper
83	100		
55	82.5	69.5	104.3

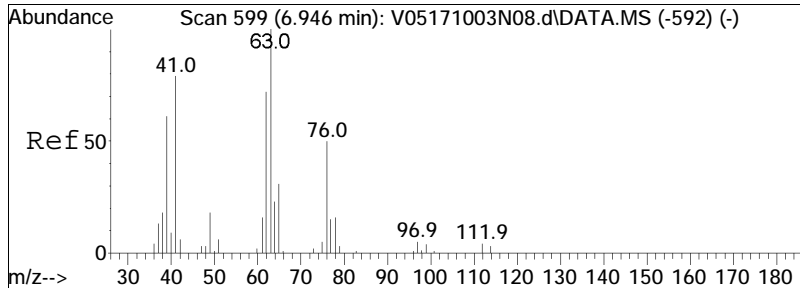




#48
 Trichloroethene
 Concen: 77.00 ug/L
 RT: 6.388 min Scan# 542
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

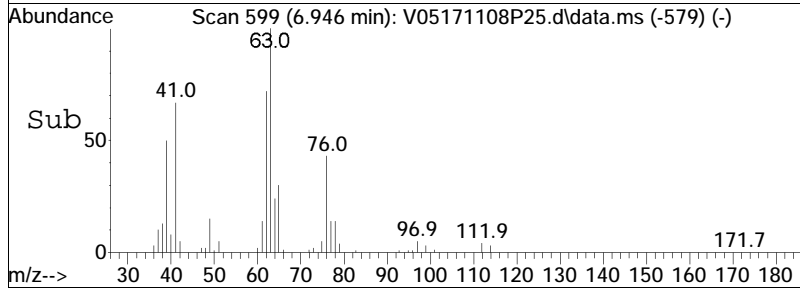
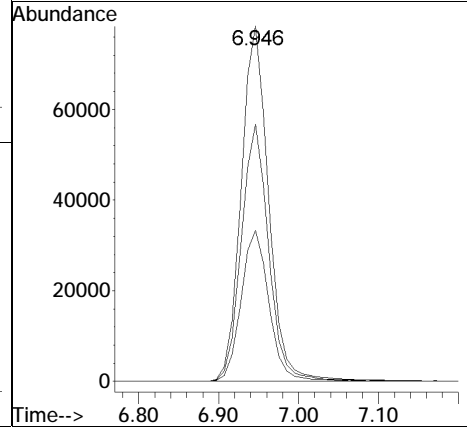
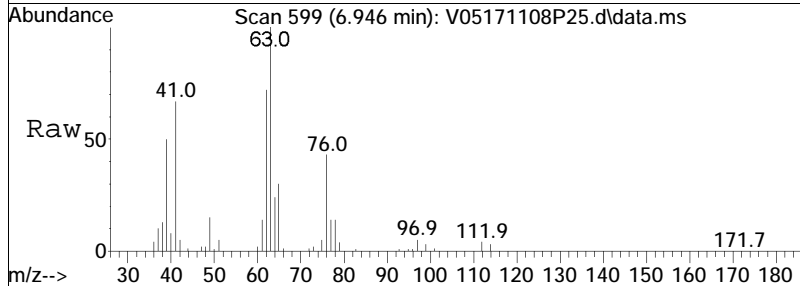
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
95	100		
97	64.5	53.5	80.3
130	98.7	75.9	113.9

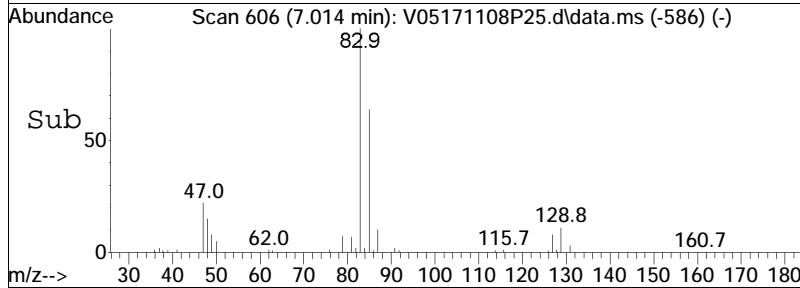
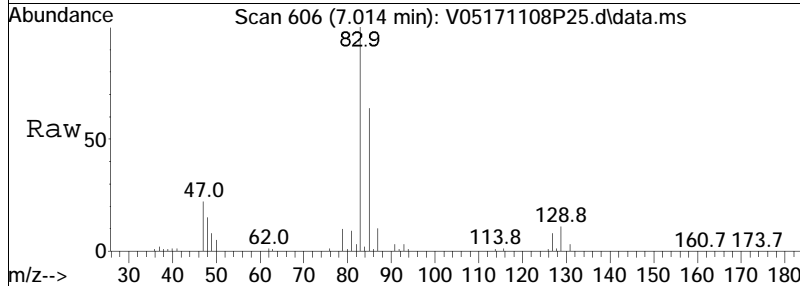
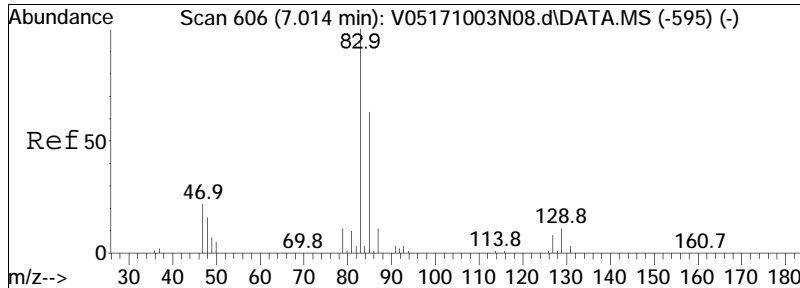




#51
 1,2-Dichloropropane
 Concen: 14.56 ug/L
 RT: 6.946 min Scan# 599
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

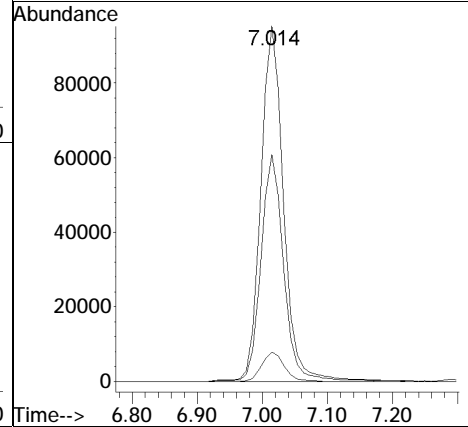
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
63	100		
62	72.1	57.4	86.2
76	43.3	39.8	59.6

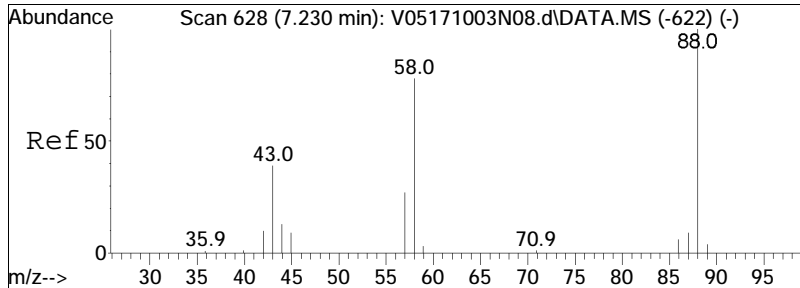




#54
 Bromodichloromethane
 Concen: 11.34 ug/L
 RT: 7.014 min Scan# 606
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

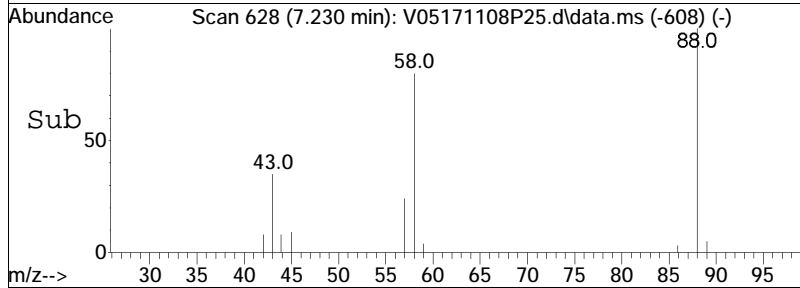
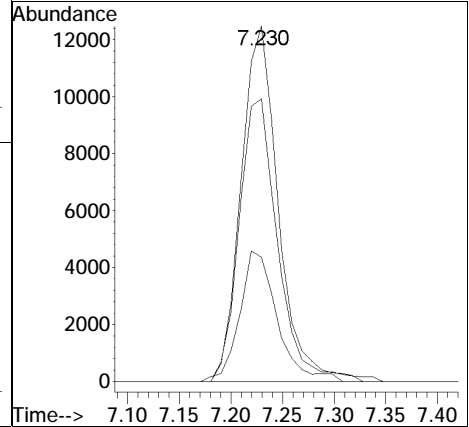
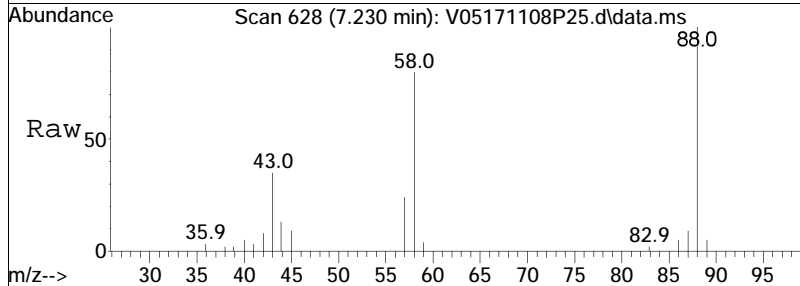
Tgt Ion	Resp	Lower	Upper
83	231482		
83	100		
85	63.6	50.3	75.5
127	8.2	6.6	9.8

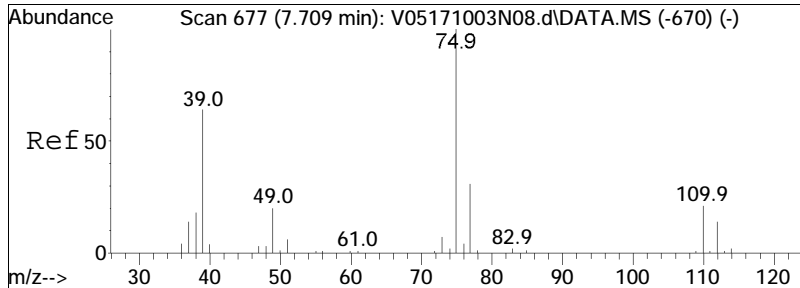




#57
 1,4-Dioxane
 Concen: 595.84 ug/L
 RT: 7.230 min Scan# 628
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

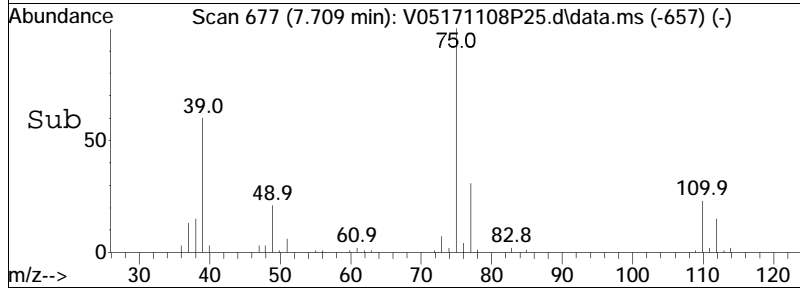
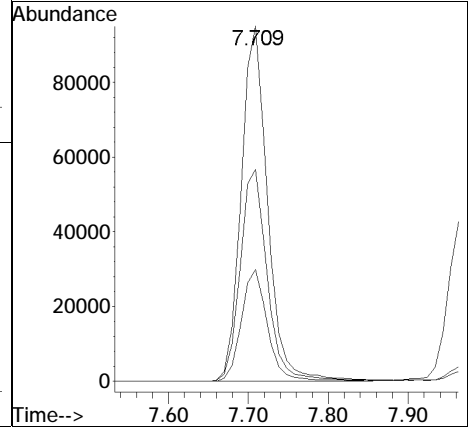
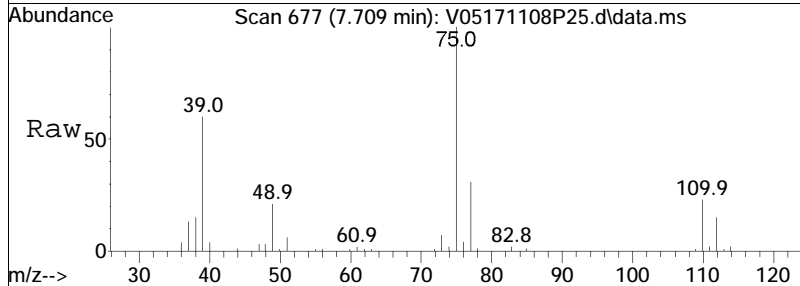
Tgt Ion	Resp	Lower	Upper
88	31170		
88	100		
58	82.9	61.5	92.3
43	37.0	30.5	45.7

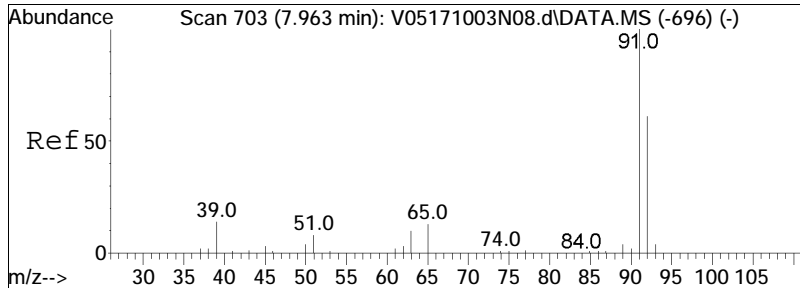




#58
 cis-1,3-Dichloropropene
 Concen: 9.76 ug/L
 RT: 7.709 min Scan# 677
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

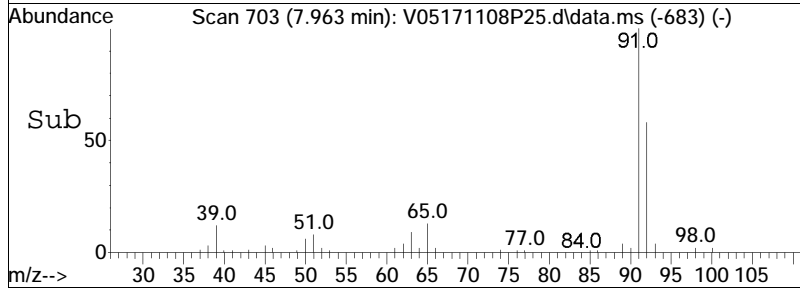
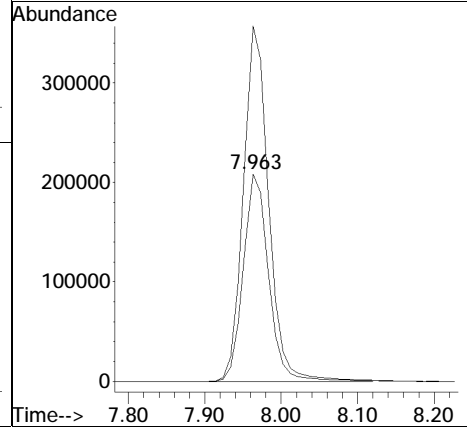
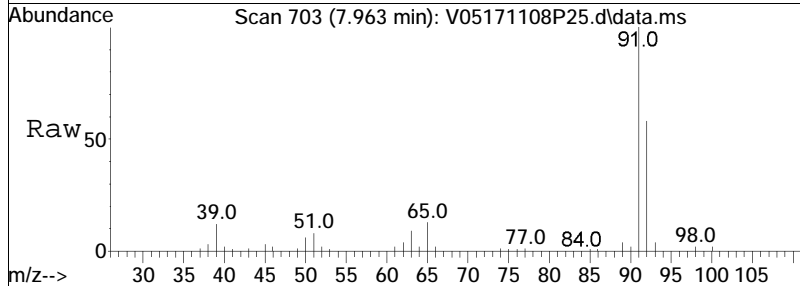
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
75	100		
77	31.4	25.1	37.7
39	61.4	53.4	80.2

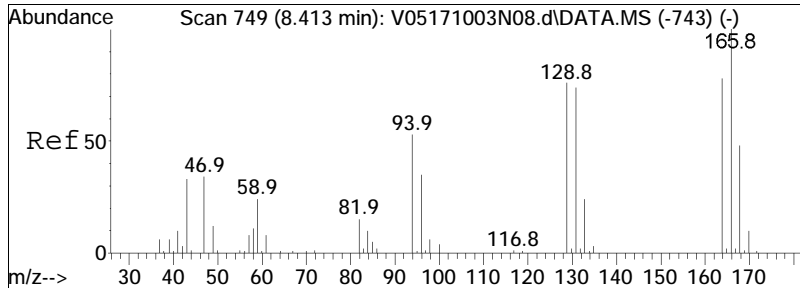




#61
 Toluene
 Concen: 13.31 ug/L
 RT: 7.963 min Scan# 703
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

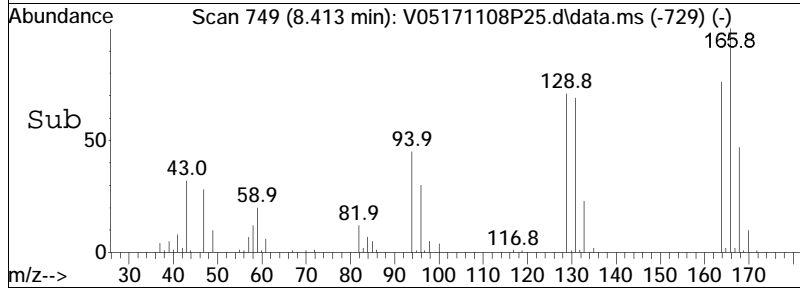
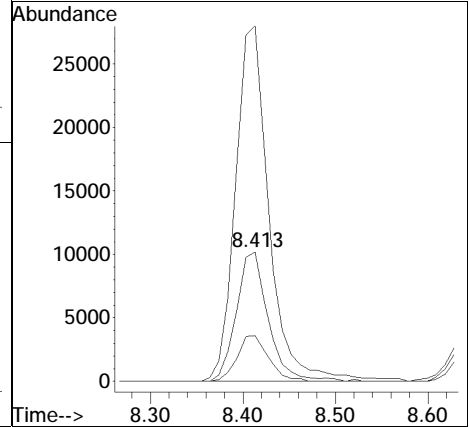
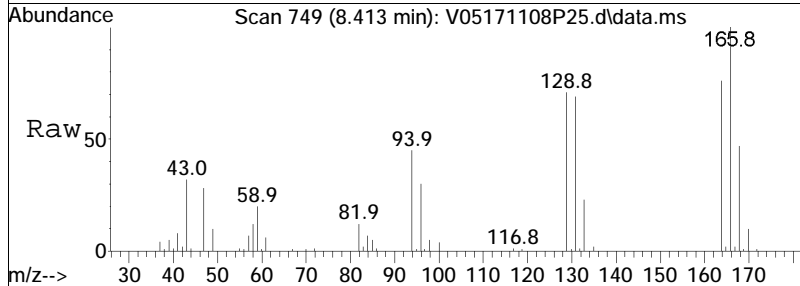
Tgt Ion: 92 Resp: 480908
 Ion Ratio Lower Upper
 92 100
 91 170.5 133.0 199.4

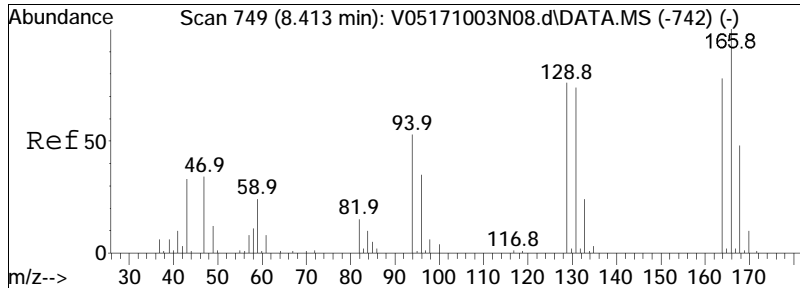




#62
 4-Methyl-2-pentanone
 Concen: 13.40 ug/L
 RT: 8.413 min Scan# 749
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

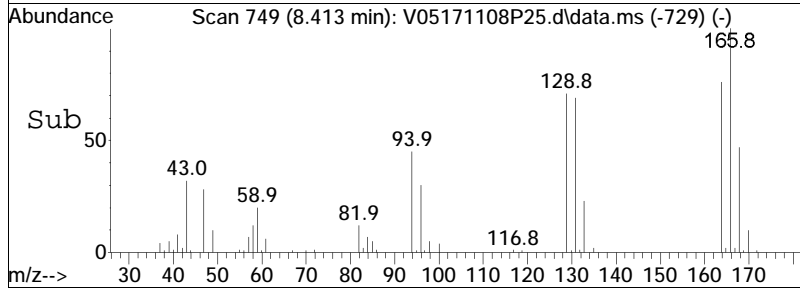
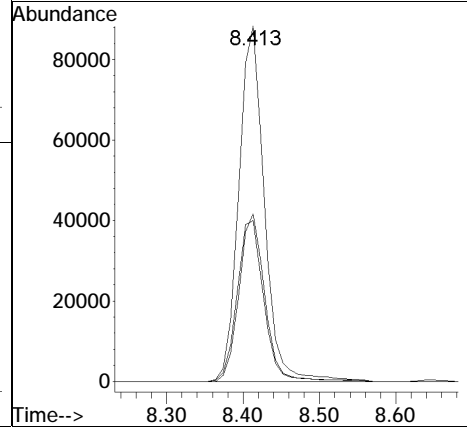
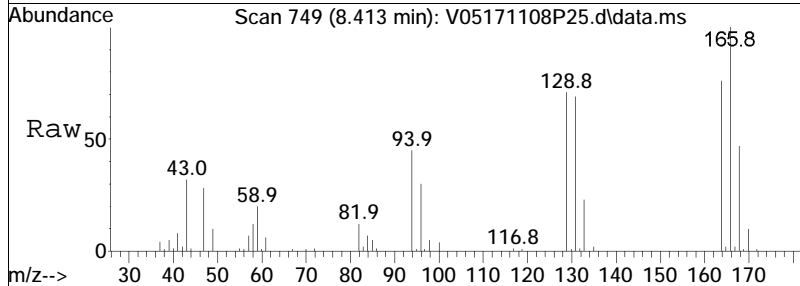
Tgt Ion	Resp	Lower	Upper
58	100		
100	34.9	29.3	43.9
43	288.1	247.4	371.0

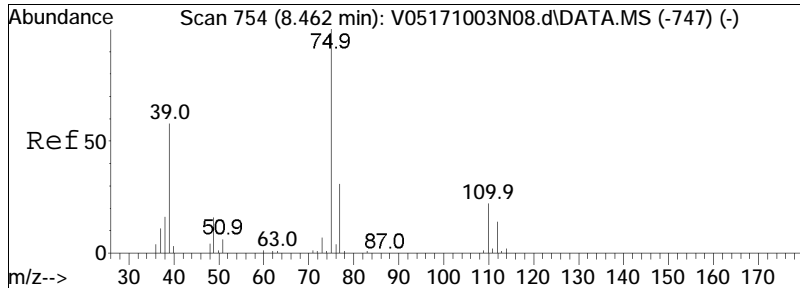




#63
 Tetrachloroethene
 Concen: 10.28 ug/L
 RT: 8.413 min Scan# 749
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

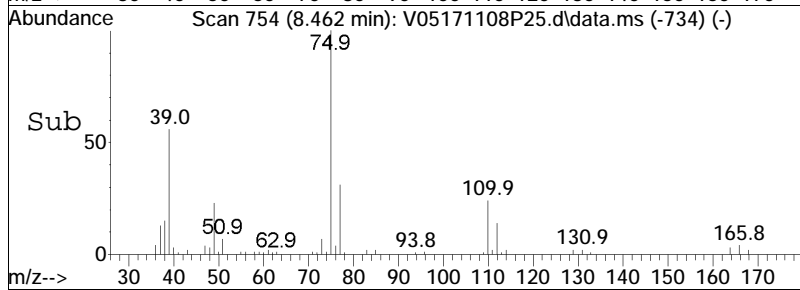
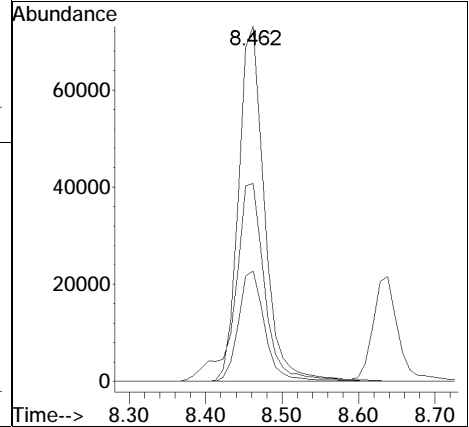
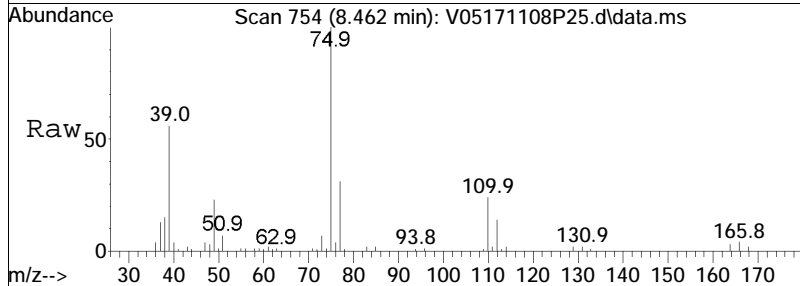
Tgt Ion	Resp	Lower	Upper
166	100		
168	47.4	27.2	67.2
94	47.3	35.8	75.8

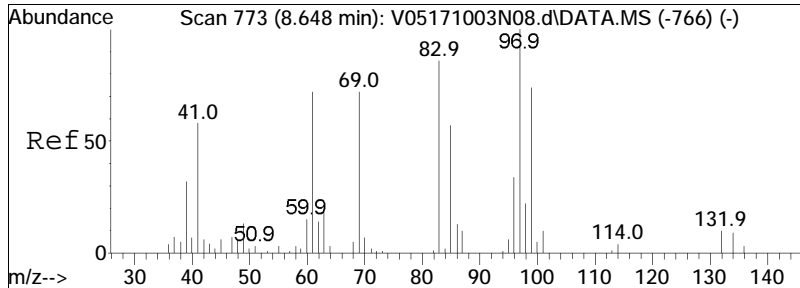




#65
 trans-1,3-Dichloropropene
 Concen: 10.02 ug/L
 RT: 8.462 min Scan# 754
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

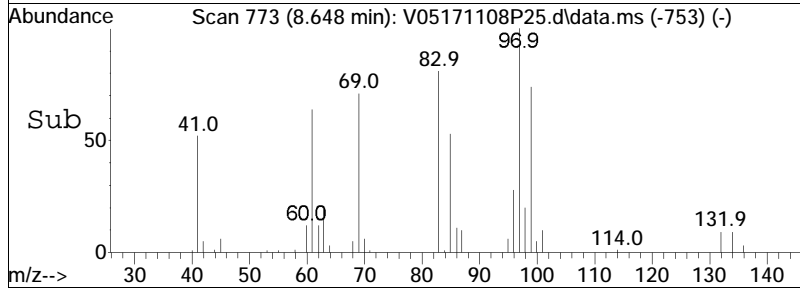
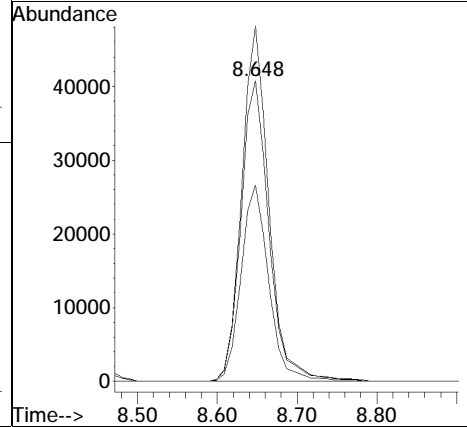
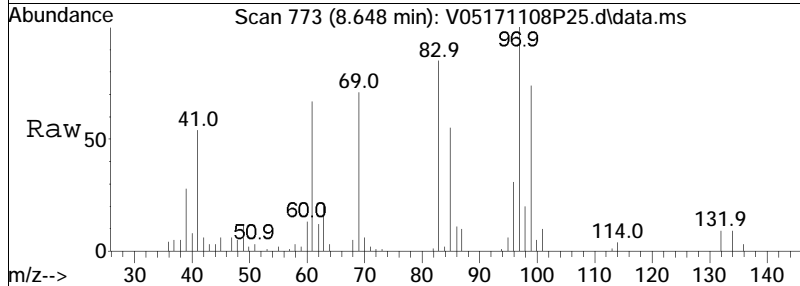
Tgt Ion	Resp	Lower	Upper
75	100		
77	31.7	10.9	50.9
39	63.8	48.1	88.1

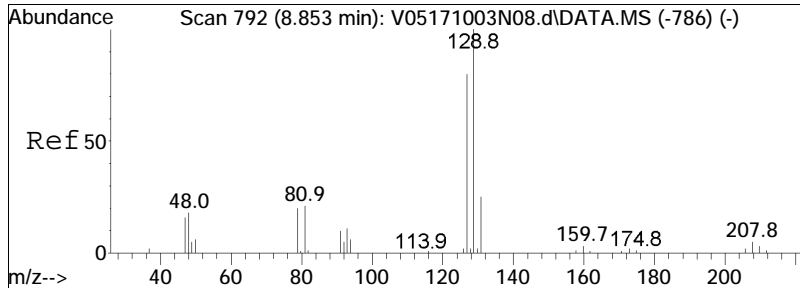




#68
 1,1,2-Trichloroethane
 Concen: 13.51 ug/L
 RT: 8.648 min Scan# 773
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

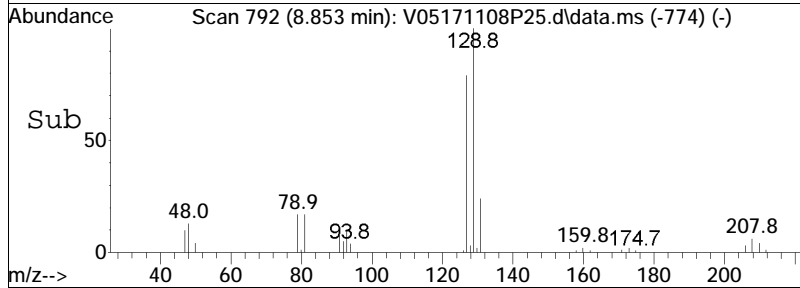
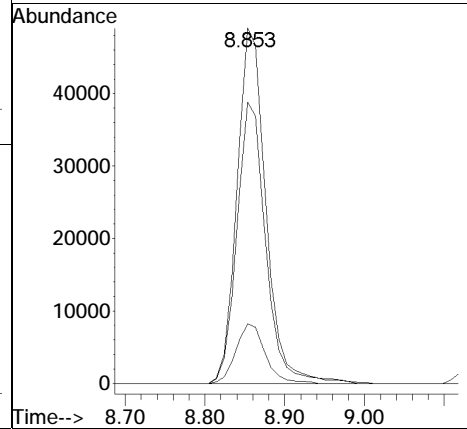
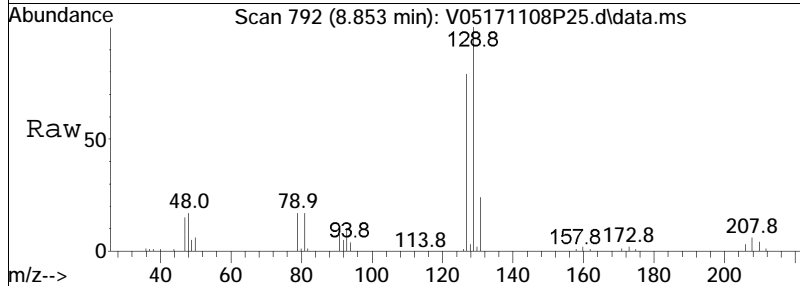
Tgt Ion	Resp	Lower	Upper
83	107464		
83	100		
97	114.0	93.6	133.6
85	64.9	46.9	86.9

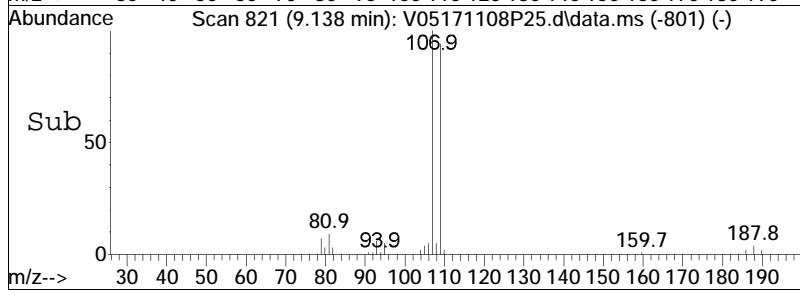
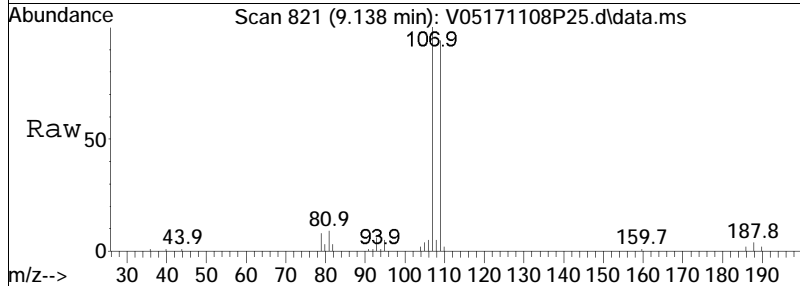
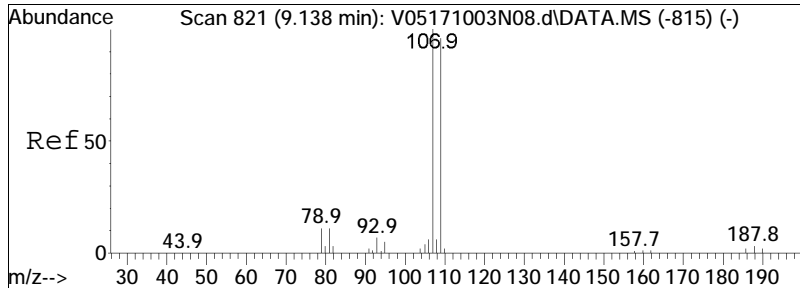




#69
 Chlorodibromomethane
 Concen: 10.70 ug/L
 RT: 8.853 min Scan# 792
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

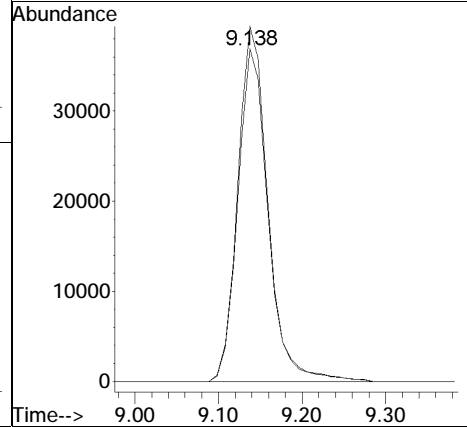
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	123415		
81	17.0		0.0	40.0
127	78.9		57.9	97.9

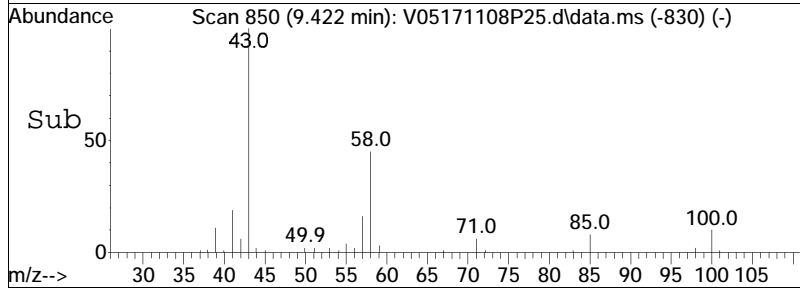
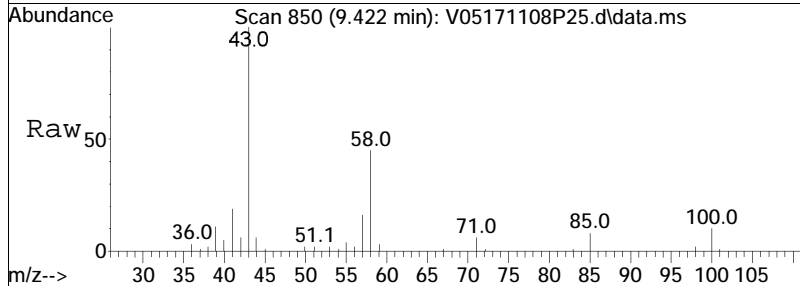
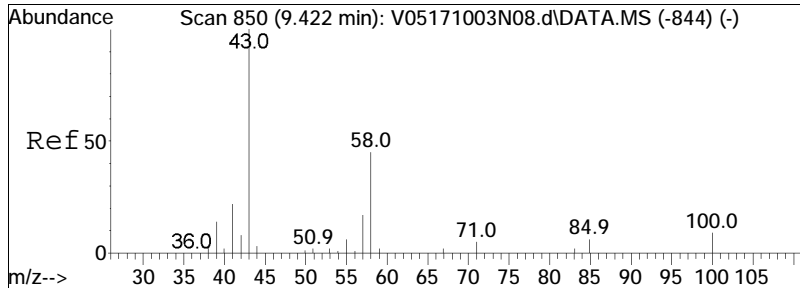




#71
 1,2-Dibromoethane
 Concen: 12.12 ug/L
 RT: 9.138 min Scan# 821
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

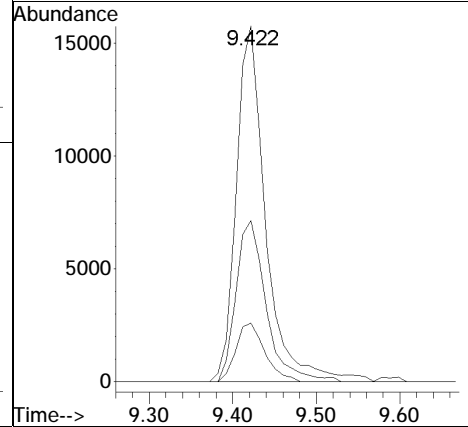
Tgt Ion	Resp	Lower	Upper
107	100		
109	94.1	75.5	113.3

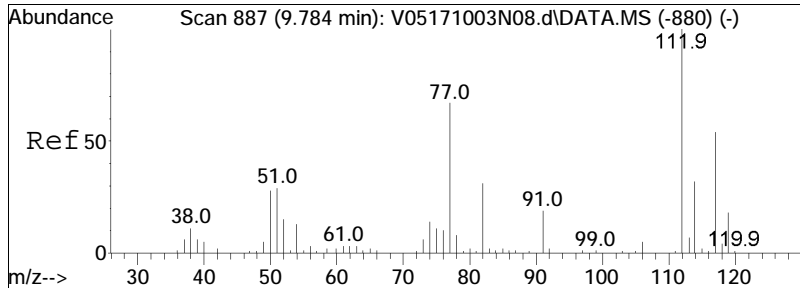




#72
 2-Hexanone
 Concen: 10.62 ug/L
 RT: 9.422 min Scan# 850
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

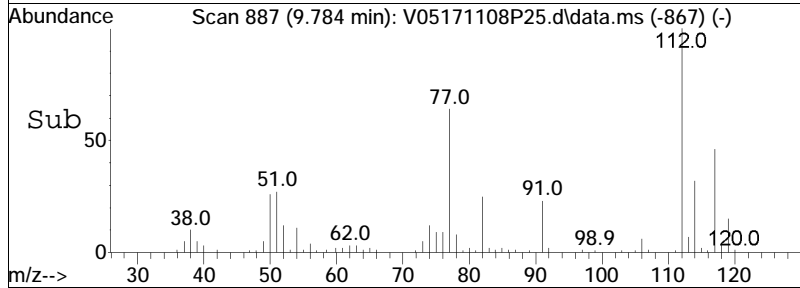
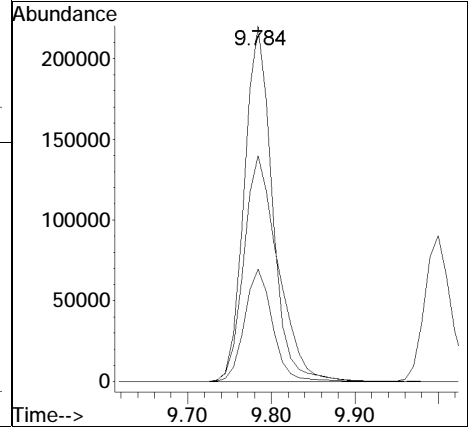
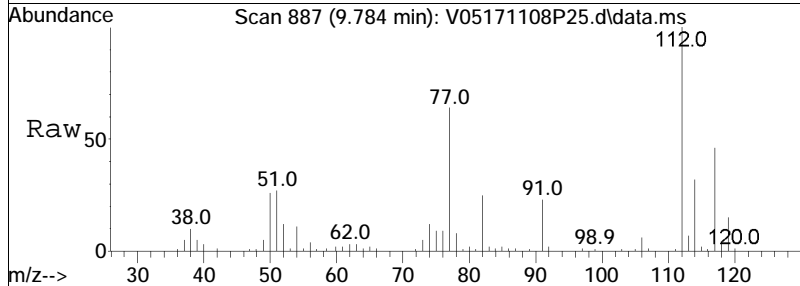
Tgt Ion:	43	Resp:	38460
Ion Ratio	Lower	Upper	
43	100		
58	46.3	32.8	49.2
57	16.1	11.8	17.8

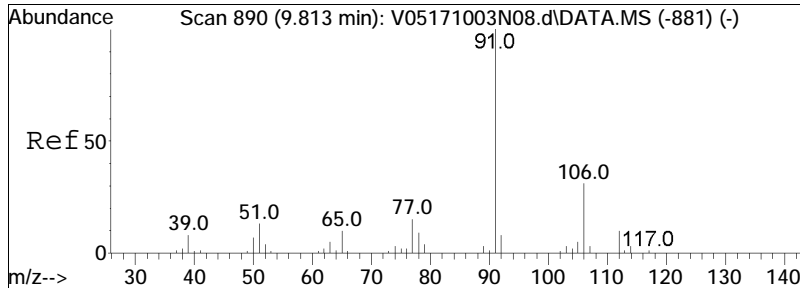




#73
 Chlorobenzene
 Concen: 12.32 ug/L
 RT: 9.784 min Scan# 887
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

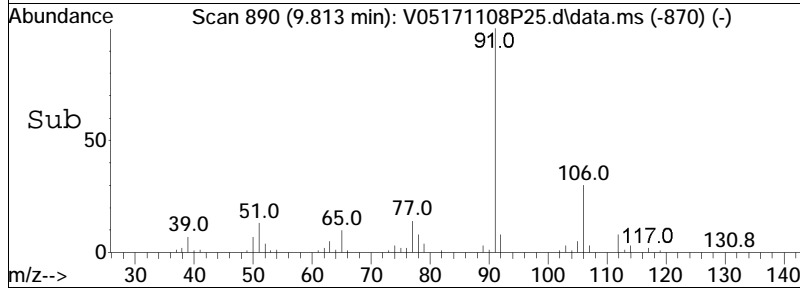
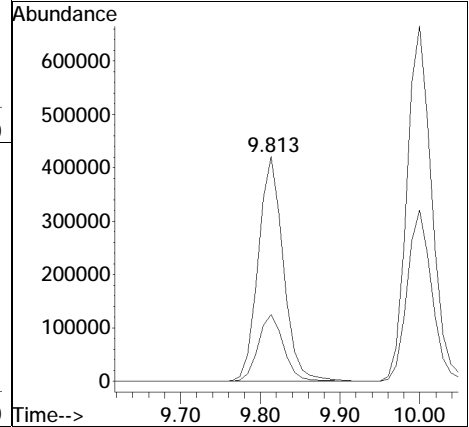
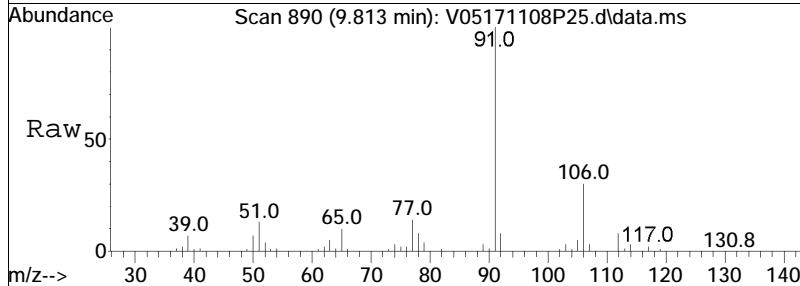
Tgt Ion	Resp	Lower	Upper
112	100		
77	78.4	67.0	100.4
114	31.7	25.6	38.4

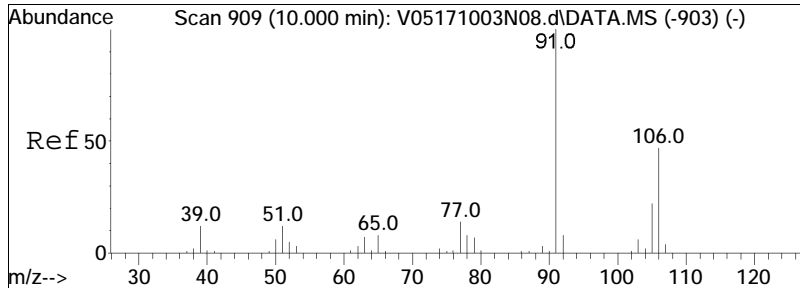




#74
 Ethylbenzene
 Concen: 13.34 ug/L
 RT: 9.813 min Scan# 890
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

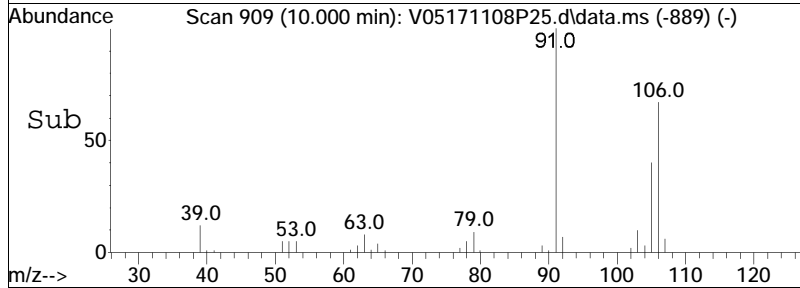
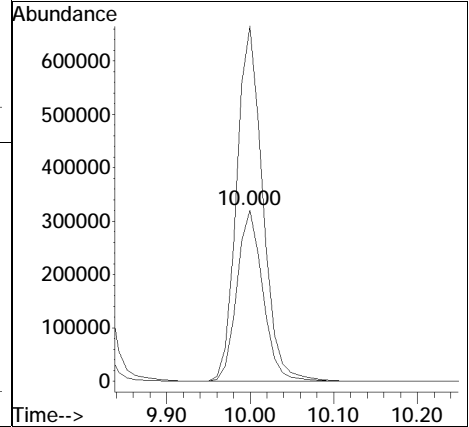
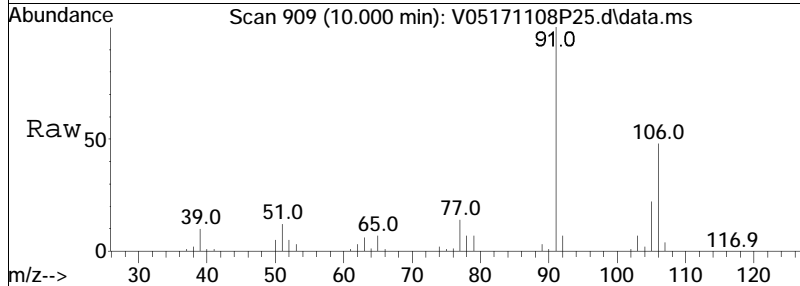
Tgt Ion: 91 Resp: 924277
 Ion Ratio Lower Upper
 91 100
 106 30.1 23.8 35.8

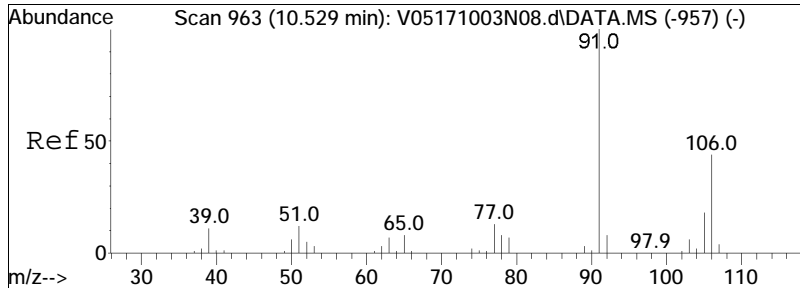




#76
 p/m Xylene
 Concen: 26.46 ug/L
 RT: 10.000 min Scan# 909
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

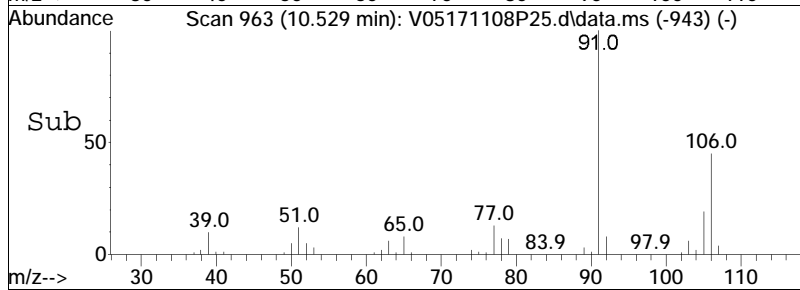
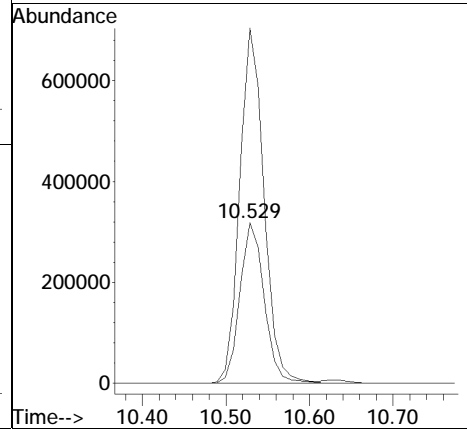
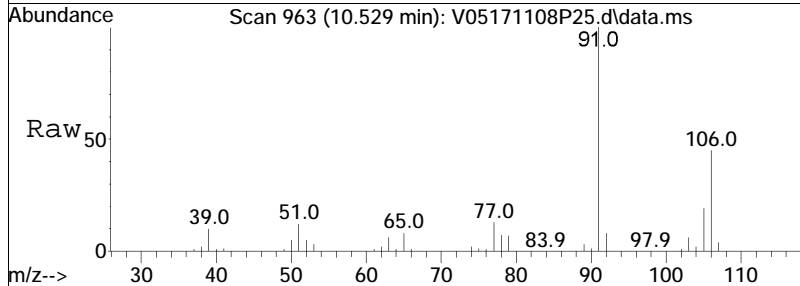
Tgt Ion	Resp	Lower	Upper
106	100		
91	207.5	169.0	253.4

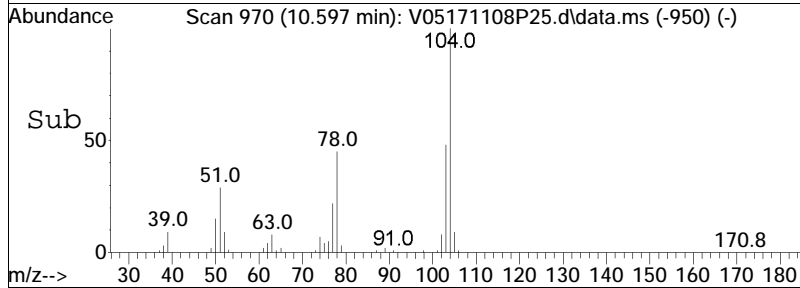
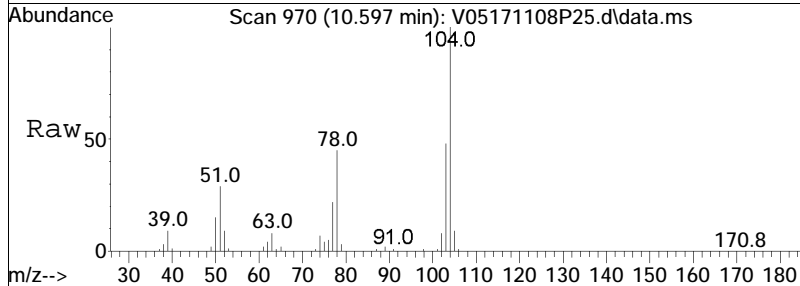
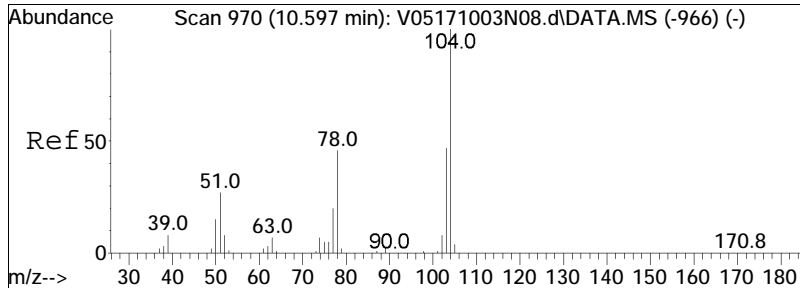




#77
 o Xylene
 Concen: 25.44 ug/L
 RT: 10.529 min Scan# 963
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

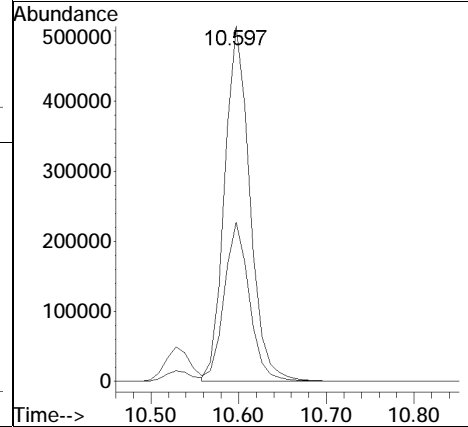
Tgt Ion: 106 Resp: 645526
 Ion Ratio Lower Upper
 106 100
 91 219.6 178.9 268.3

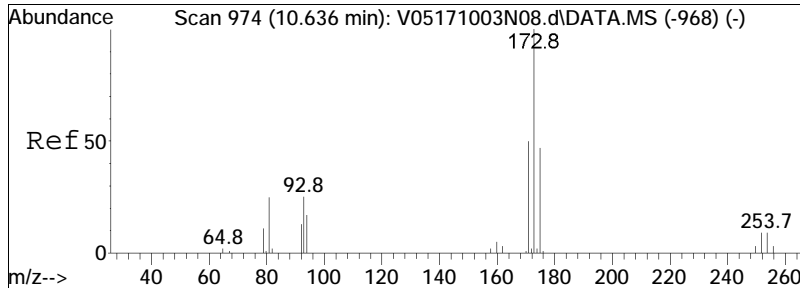




#78
 Styrene
 Concen: 24.80 ug/L
 RT: 10.597 min Scan# 970
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

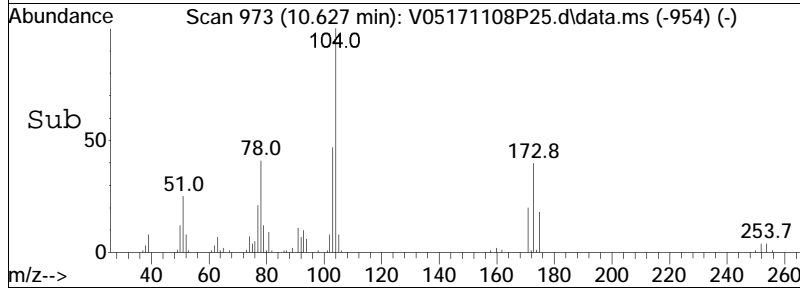
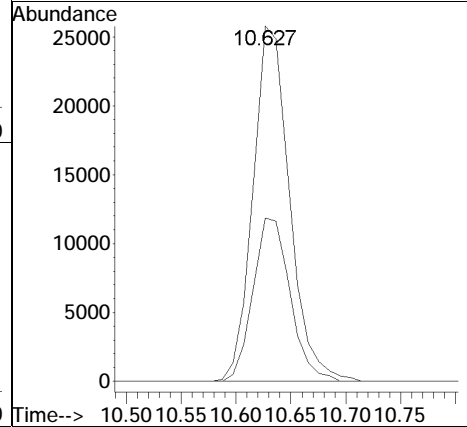
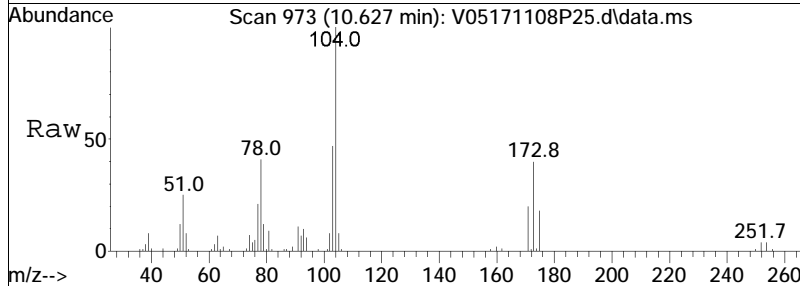
Tgt Ion	Resp	Lower	Upper
104	1013622		
78	44.6	37.9	56.9

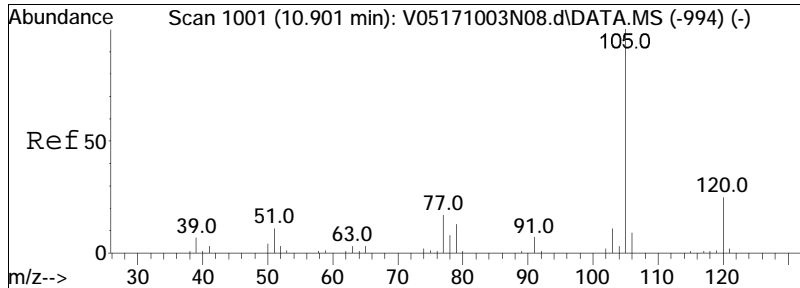




#80
 Bromoform
 Concen: 10.69 ug/L
 RT: 10.627 min Scan# 973
 Delta R.T. -0.010 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

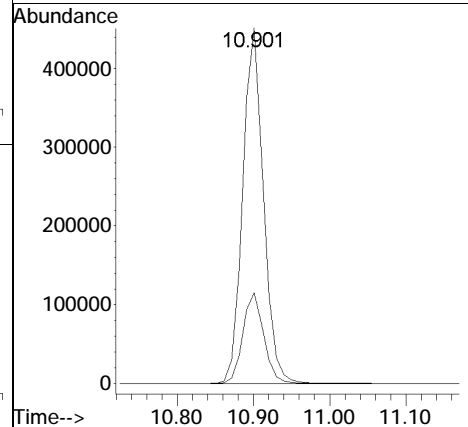
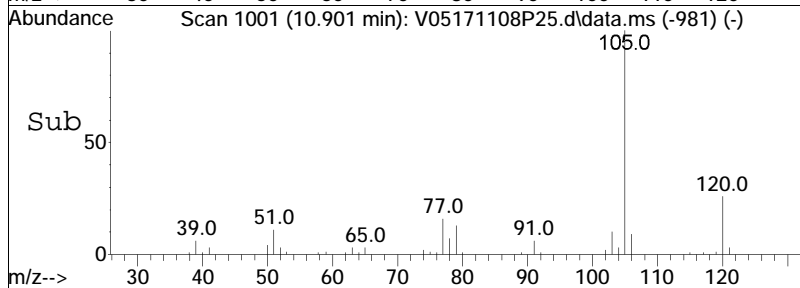
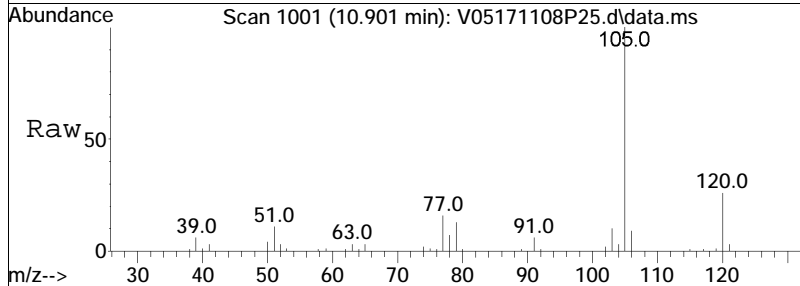
Tgt Ion: 173 Resp: 59793
 Ion Ratio Lower Upper
 173 100
 175 46.7 27.7 67.7

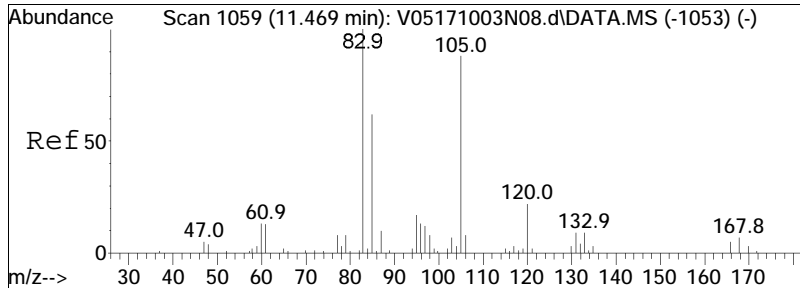




#82
 Isopropylbenzene
 Concen: 13.31 ug/L
 RT: 10.901 min Scan# 1001
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

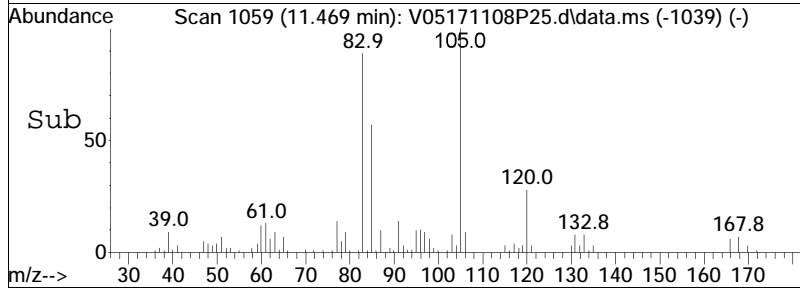
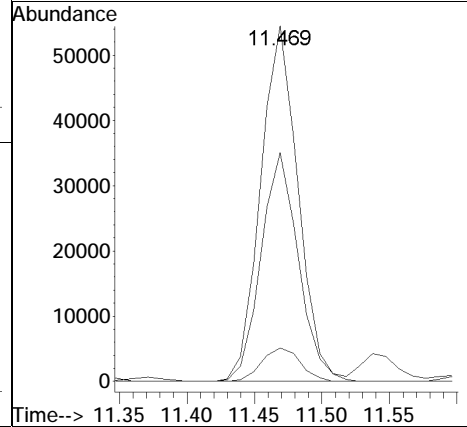
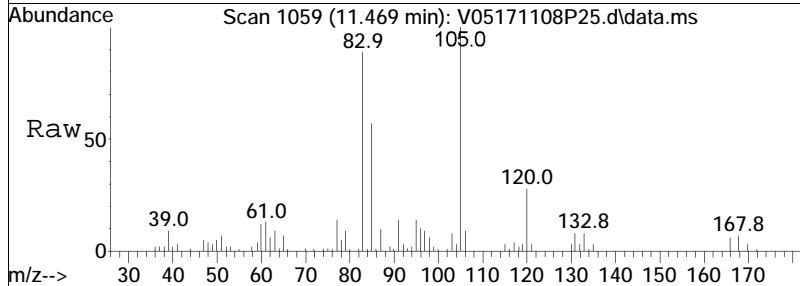
Tgt Ion: 105 Resp: 847747
 Ion Ratio Lower Upper
 105 100
 120 25.6 5.8 45.8

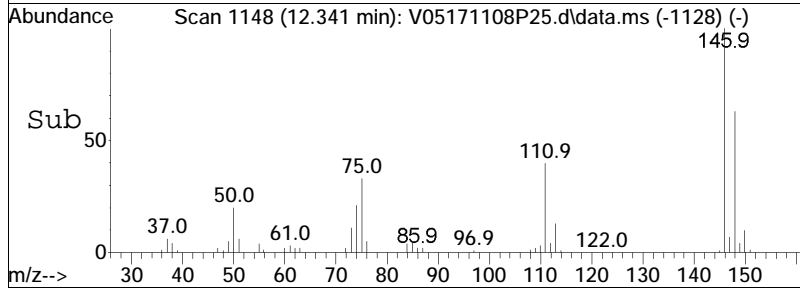
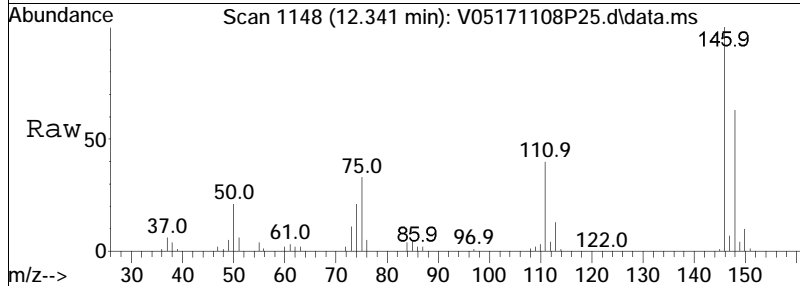
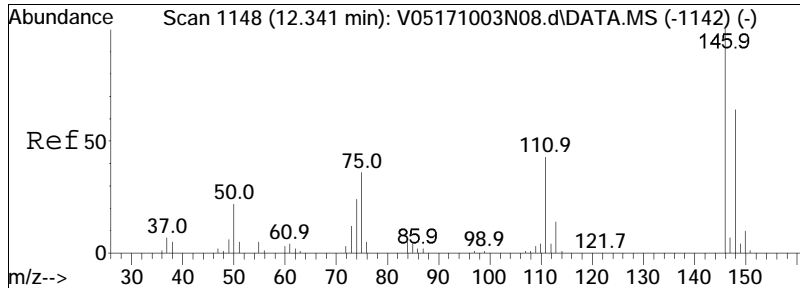




#87
 1,1,2,2-Tetrachloroethane
 Concen: 14.96 ug/L
 RT: 11.469 min Scan# 1059
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

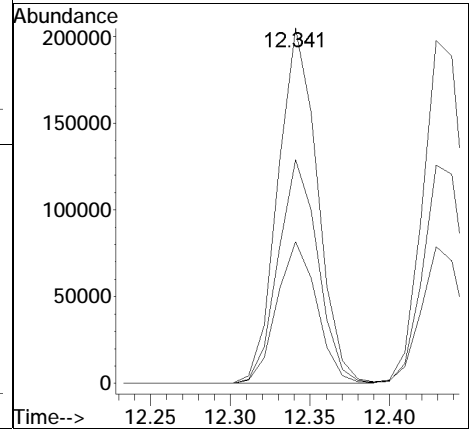
Tgt Ion	Resp	Lower	Upper
83	104841		
83	100		
131	9.8	0.0	29.3
85	64.6	44.5	84.5

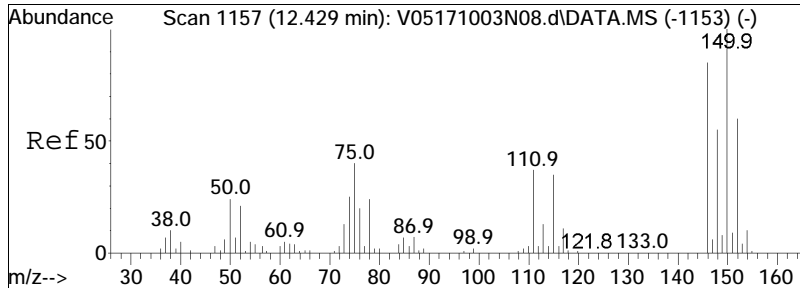




#100
 1,3-Dichlorobenzene
 Concen: 12.58 ug/L
 RT: 12.341 min Scan# 1148
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

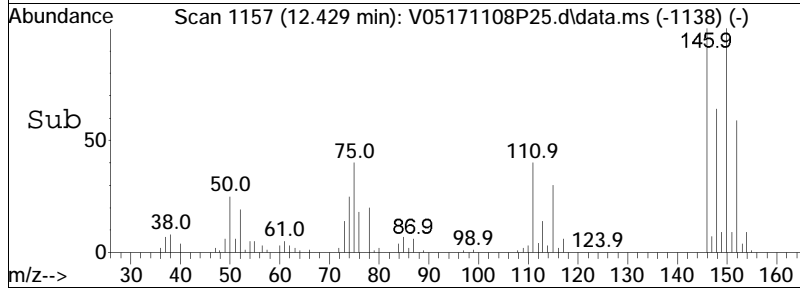
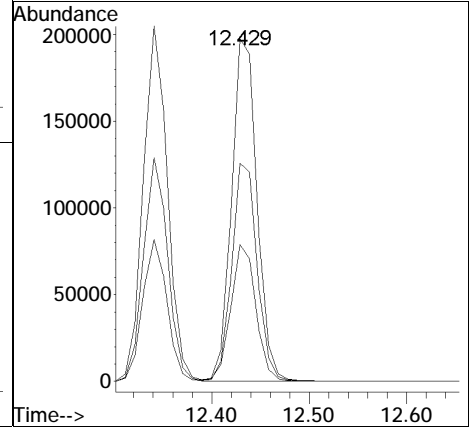
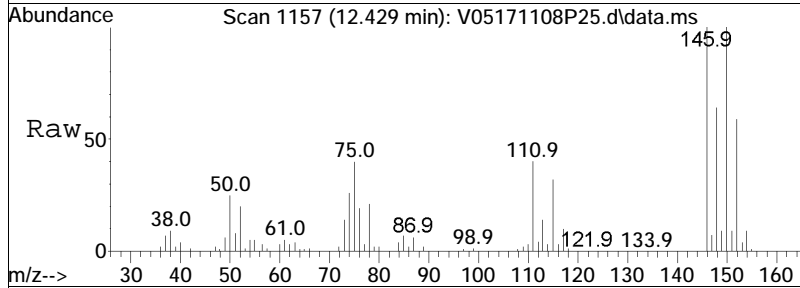
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.1	27.6	57.4
148	63.0	41.3	85.9

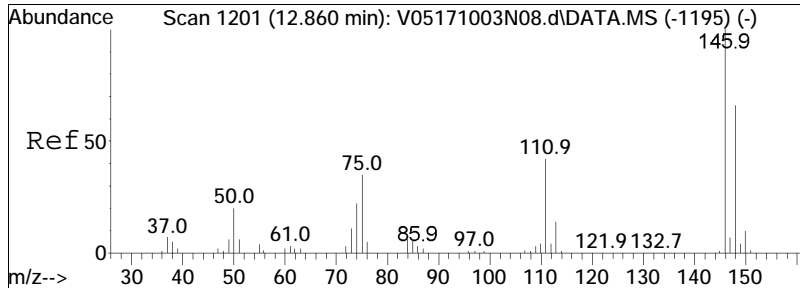




#101
 1,4-Dichlorobenzene
 Concen: 12.17 ug/L
 RT: 12.429 min Scan# 1157
 Delta R.T. -0.010 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

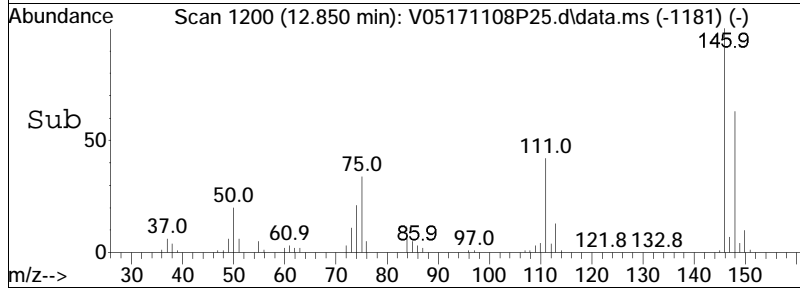
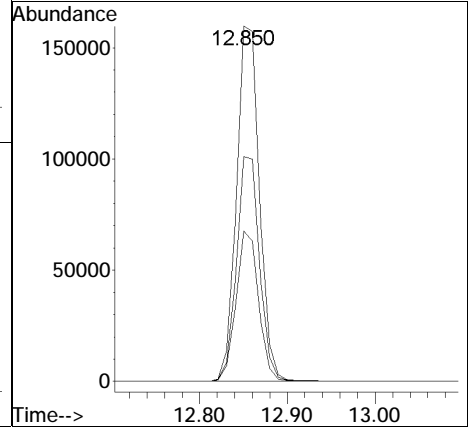
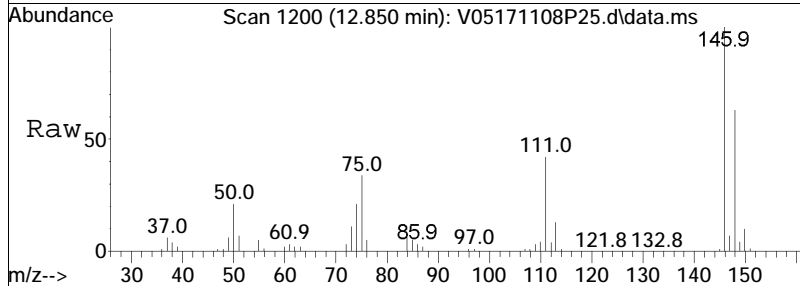
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	33.6	50.4
148	63.5	51.3	76.9

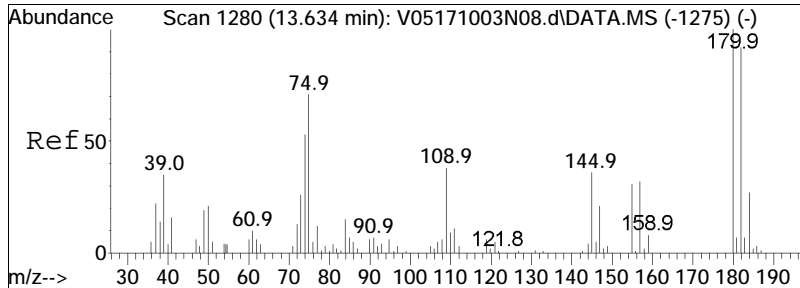




#104
 1,2-Dichlorobenzene
 Concen: 12.57 ug/L
 RT: 12.850 min Scan# 1200
 Delta R.T. -0.010 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

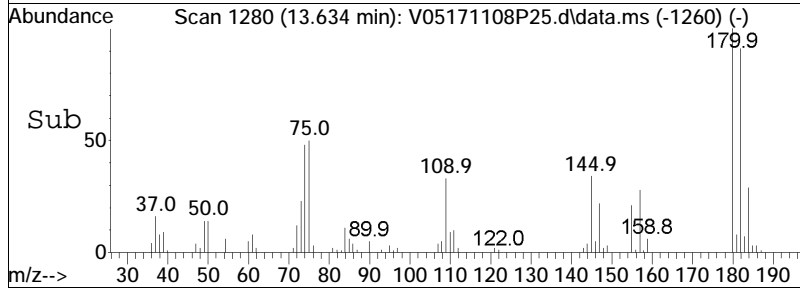
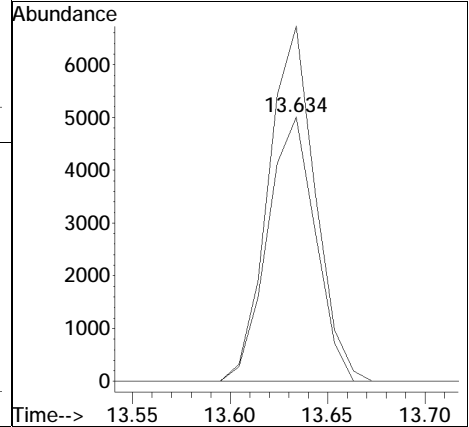
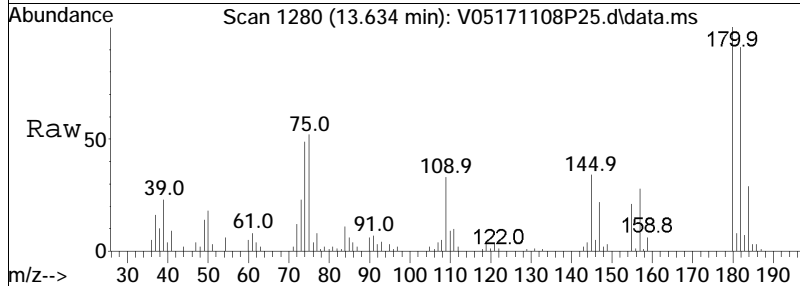
Tgt Ion	Resp	Lower	Upper
146	100		
111	41.4	28.3	58.9
148	63.4	41.9	87.1

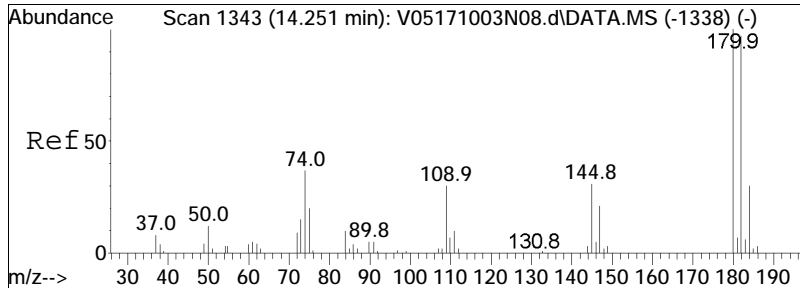




#106
 1,2-Dibromo-3-chloropropane
 Concen: 9.40 ug/L
 RT: 13.634 min Scan# 1280
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

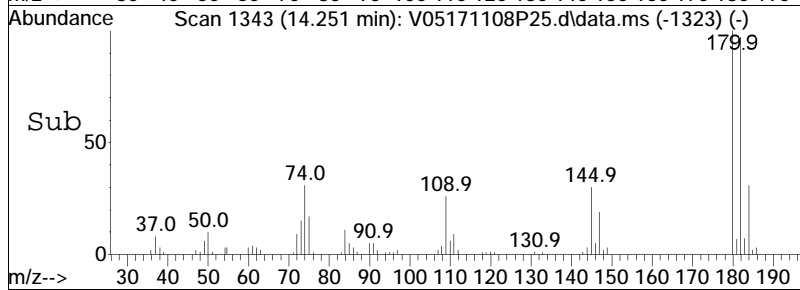
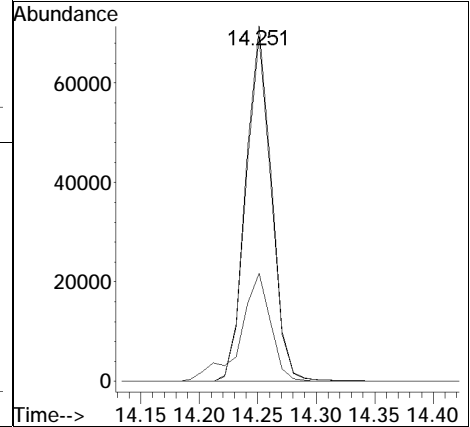
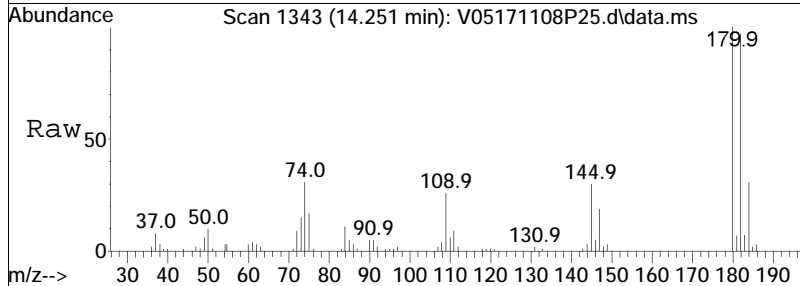
Tgt Ion: 155 Resp: 8554
 Ion Ratio Lower Upper
 155 100
 157 131.3 96.6 145.0

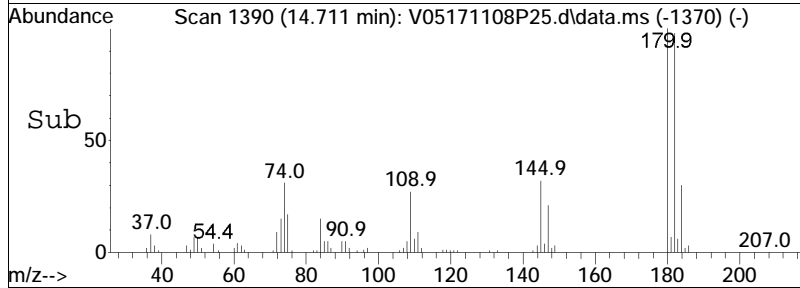
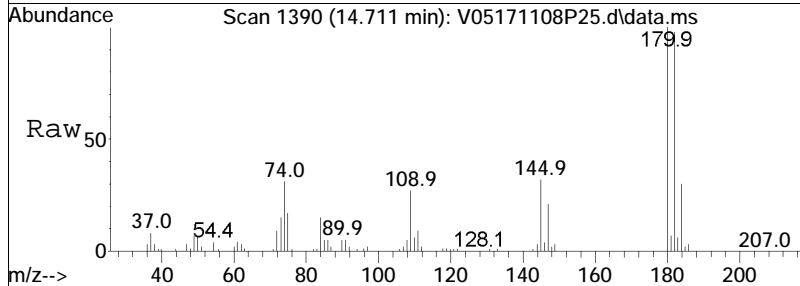
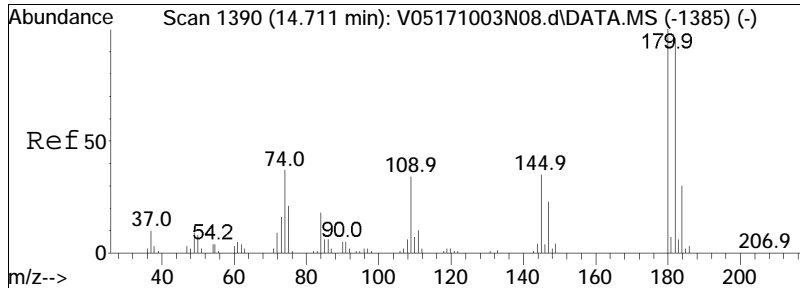




#109
 1,2,4-Trichlorobenzene
 Concen: 11.20 ug/L
 RT: 14.251 min Scan# 1343
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

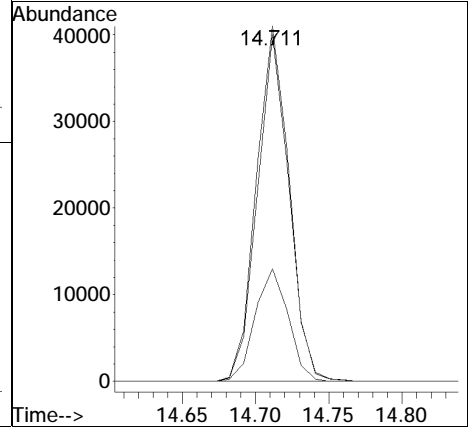
Tgt Ion	Resp	Lower	Upper
180	110216		
180	100		
182	95.7	76.3	114.5
145	35.7	31.0	46.4





#111
 1,2,3-Trichlorobenzene
 Concen: 11.20 ug/L
 RT: 14.711 min Scan# 1390
 Delta R.T. -0.000 min
 Lab File: V05171108P25.d
 Acq: 9 Nov 2017 6:55 am

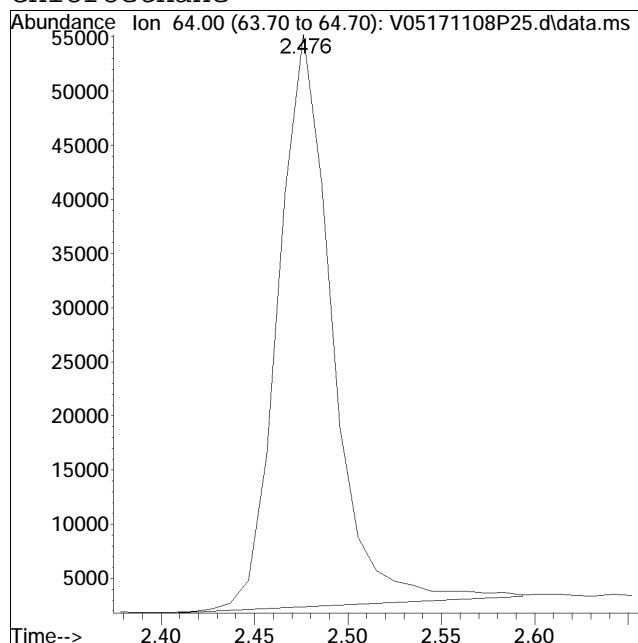
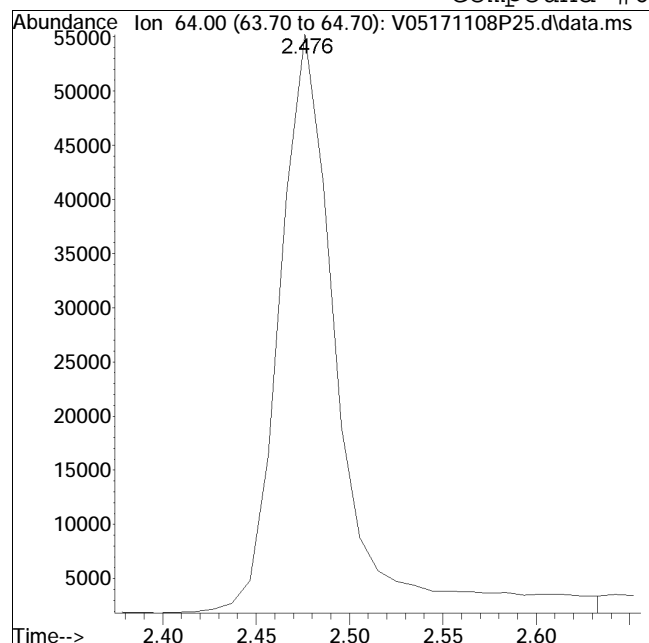
Tgt Ion	Resp	Lower	Upper
180	63792		
180	100		
182	94.1	76.2	114.2
145	32.2	28.2	42.2



Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2017\1QMethod : V105_171026N_8260.m
Data File : V05171108P25.d Operator : VOA105:PD
Date Inj'd : 11/9/2017 6:55 am Instrument : VOA 105
Sample : WG1061312-7,31,1,10,,a2 Quant Date : 11/9/2017 7:22 am

Compound #6: Chloroethane



Original Peak Response = 118703

Manual Peak Response = 106410 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: $Amt * DF * Uf * (1/Vo)$

Where:

DF = Dilution Factor

Vo = Sample Volume Purged (mL)

Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: $Amt * DF * (1/Wt)$

Where:

DF = Dilution Factor

Wt = Weight of Sample (g)



ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 09 2017, 04:31 pm

Work Group: WG1061312 for Department: 31 GC/MS - Volatiles

Created: 09-NOV-17 Due: Operator: PD

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1740361-10	FB	S NYTCL-8260	WATER	DONE	U	1116	1110	S0	Vial-B
L1740361-11	TMW-1	S NYTCL-8260	WATER	DONE	U	1116	1110	S0	Vial-B
L1740361-12	TMW-2	S NYTCL-8260	WATER	DONE	U	1116	1110	S0	Vial-B
L1740361-13	TMW-3	S NYTCL-8260	WATER	DONE	U	1116	1110	S0	Vial-B
L1740361-16	FBGW	S NYTCL-8260	WATER	DONE	U	1116	1110	S0	Vial-B
L1740361-17	TB	S NYTCL-8260	WATER	DONE	U	1116	1110	S0	Vial-B
L1740425-01	C241175_MW46DB_11031	S NYTCL-8260	WATER	DONE	U	1117	1110	S0	Vial-B
L1740425-02	C241175_MW60D_110317	S NYTCL-8260	WATER	DONE	U	1117	1110	S0	Vial-B
L1740425-03	C241175_GWTB15_11031	S NYTCL-8260	WATER	DONE	U	1117	1110	S0	Vial-B
L1740446-01	BMW-17A	S NYTCL-8260-R2	WATER	DONE	U	1116	1110	S0	Vial-B
L1740446-02	MW-1A	S NYTCL-8260-R2	WATER	DONE	U	1116	1110	S0	Vial-B
L1740446-03	MW-2A	S NYTCL-8260-R2	WATER	DONE	U	1116	1110	S0	Vial-B
L1740446-04	MW-3A	S NYTCL-8260-R2	WATER	DONE	U	1116	1110	S0	Vial-B
L1740446-05	BMW-15A	S NYTCL-8260-R2	WATER	DONE	U	1116	1110	S0	Vial-B
L1740446-06	BMW-14A	S NYTCL-8260-R2	WATER	DONE	U	1116	1110	S0	Vial-B
L1740446-07	FD01-20171103	S NYTCL-8260-R2	WATER	DONE	U	1116	1110	S0	Vial-B
L1740446-08	BMW-18A	S NYTCL-8260-R2	WATER	DONE	U	1116	1110	S0	Vial-B
L1740446-09	TRIP BLANK	S NYTCL-8260-R2	WATER	DONE	U	1116	1110	S0	Vial-B
WG1061312-1	MS BFB Tune Standard	S NYTCL-8260	WATER	DONE	U				
WG1061312-1	MS BFB Tune Standard	S NYTCL-8260-R2	WATER	DONE	U				
WG1061312-10	Laboratory Control	S NYTCL-8260	WATER	DONE	U				
WG1061312-10	Laboratory Control	S NYTCL-8260-R2	WATER	DONE	U				
WG1061312-11	LCS Duplicate	S NYTCL-8260	WATER	DONE	U				
WG1061312-11	LCS Duplicate	S NYTCL-8260-R2	WATER	DONE	U				
WG1061312-12	Laboratory Method Bl	S NYTCL-8260	WATER	DONE	U				
WG1061312-12	Laboratory Method Bl	S NYTCL-8260-R2	WATER	DONE	U				
WG1061312-2	Continuing Calibrati	S NYTCL-8260	WATER	DONE	U				
WG1061312-2	Continuing Calibrati	S NYTCL-8260-R2	WATER	DONE	U				
WG1061312-3	Laboratory Control	S NYTCL-8260-R2	WATER	DONE	U				
WG1061312-3	Laboratory Control	S NYTCL-8260	WATER	DONE	U				
WG1061312-4	LCS Duplicate	S NYTCL-8260-R2	WATER	DONE	U				
WG1061312-4	LCS Duplicate	S NYTCL-8260	WATER	DONE	U				
WG1061312-5	Laboratory Method Bl	S NYTCL-8260	WATER	DONE	U				
WG1061312-5	Laboratory Method Bl	S NYTCL-8260-R2	WATER	DONE	U				
WG1061312-6	Matrix Spike	S NYTCL-8260-R2	WATER	DONE	U				
WG1061312-6	Matrix Spike	S NYTCL-8260	WATER	DONE	U				
WG1061312-7	Matrix Spike Duplica	S NYTCL-8260	WATER	DONE	U				
WG1061312-7	Matrix Spike Duplica	S NYTCL-8260-R2	WATER	DONE	U				
WG1061312-8	MS BFB Tune Standard	S NYTCL-8260-R2	WATER	DONE	U				
WG1061312-8	MS BFB Tune Standard	S NYTCL-8260	WATER	DONE	U				
WG1061312-9	Continuing Calibrati	S NYTCL-8260-R2	WATER	DONE	U				
WG1061312-9	Continuing Calibrati	S NYTCL-8260	WATER	DONE	U				
Comments:									
WG1061312-11	WG1061312-10								
WG1061312-4	WG1061312-3								
WG1061312-6	L1740446-03								
WG1061312-7	L1740446-03								

171026N

2017

Inst: VOA105	BFB: V6372	Method
Initials: PD	IS/SS: V6369	GC: 8260
Date: 10/26/17	ICAL: V6382, V6389	Autosampler: 8260water10ml
Run: N	ICV: V6316, V6346, V6317, V6347, V6315, V6348	Concentrator: 8260_test
		QC: _____



Vial	Data File	Sample
1	V05171026NBF1	BFB TUNE 11:53
1	V05171026N01	BLK
2	V05171026N02	BLK
3	V05171026N03	ISTDL11
4	V05171026N04	ISTDL1
5	V05171026N05	ISTDL1
6	V05171026N06	ISTDL2
7	V05171026N07	ISTDL2
8	V05171026N08	ISTDL3
9	V05171026N09	ISTDL4
10	V05171026N10	ISTDL6
11	V05171026N11	ISTDL8
12	V05171026N12	ISTDL10
13	V05171026N13	BLK
14	V05171026N14	BLK
15	V05171026N15	BLK
16	V05171026N16	BLK
17	V05171026N17	BLK
18	V05171026N18	CSTD3
19	V05171026N19	CSTD3
20	V05171026N20	BLK

Inst: VOA105
 Initials: TAB
 Date: 11/08/17
 Run: N

BFB: V6372
 IS/SS: V6405
 ICAL: V6382, V6389
 ICV: V6316, V6346, V6317, V6347, V6315, V6348

Method
 GC: 8260
 Autosampler: 8260water10ml
 Concentrator: 8260_test



QC: _____ Seq: _____

Vial	Data File	Sample	obs
1	V05171108PBF1	BFB TUNE 20:34	
1	V05171108P01	8260 CCAL LCS	
2	V05171108P02	8260 CCAL LCSD	
3	V05171108P03	8260 CCAL	
4	V05171108P04	BLK	
5	V05171108P05	METHOD BLK	
6	V05171108P06	I1740446-09,31,10,10,,a NYCURVE	pH<2
7	V05171108P07	I1740446-01,31,10,10,,a NYCURVE	pH<2
8	V05171108P08	I1740446-02,31,10,10,,a NYCURVE	pH<2
9	V05171108P09	I1740446-08,31,10,10,,a NYCURVE	pH<2
10	V05171108P10	I1740446-05D,31,4,10,,a NYCURVE	pH<2
11	V05171108P11	I1740446-07D,31,4,10,,a NYCURVE	pH<2
12	V05171108P12	I1740446-04D,31,2,10,,a NYCURVE	pH<2
13	V05171108P13	I1740446-06D,31,1,10,,a NYCURVE	pH<2
14	V05171108P14	I1740446-03D,31,1,10,,a2 NYCURVE	pH<2
15	V05171108P15	I1740425-01,31,10,10,,a NYCURVE	pH<2
16	V05171108P16	I1740425-02,31,10,10,,a NYCURVE	pH<2
17	V05171108P17	I1740425-03,31,10,10,,a NYCURVE	pH<2
18	V05171108P18	I1740361-10,31,10,10,,a NYTCL	pH<2
19	V05171108P19	I1740361-16,31,10,10,,a NYTCL	pH<2
20	V05171108P20	I1740361-17,31,10,10,,a NYTCL	pH<2
21	V05171108P21	I1740361-13,31,10,10,,a NYTCL	pH<2
22	V05171108P22	I1740361-11D,31,1,10,,a NYTCL	pH<2
23	V05171108P23	I1740361-12D,31,1,10,,a NYTCL	pH>2
24	V05171108P24	I1740446-03MS,31,1,10,,a2 NYCURVE	pH<2
25	V05171108P25	I1740446-03MSD,31,1,10,,a2 NYCURVE	pH<2
26	V05171108P26	HSTD	
27	V05171108P27	BLANK	
28	V05171108P28	BLANK	

Inst: VOA105
 Initials: PD
 Date: 11/09/17
 Run: A

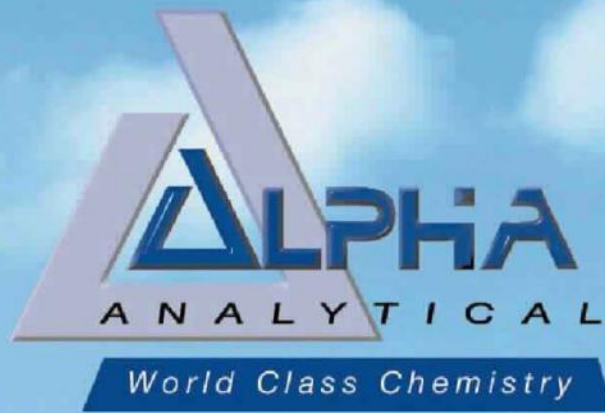
BFB: V6372
 IS/SS: V6405
 ICAL: V6382, V6389
 ICV: V6316, V6346, V6317, V6347, V6315, V6348

Method
 GC: 8260
 Autosampler: 8260water10ml
 Concentrator: 8260_test



QC: _____ Seq: _____

Vial	Data File	Sample	obs
1	V05171109ABF1	BFB TUNE 07:25	
1	V05171109A01	8260 CCAL	
2	V05171109A02	8260 CCAL LCS	
3	V05171109A03	8260 CCAL LCSD	
4	V05171109A04	BLK	
5	V05171109A05	METHOD BLK	
6	V05171109A06	I1740931-01,31,10,10,,a NYCURVE	pH<2
7	V05171109A07	I1740931-02,31,10,10,,a NYCURVE	pH<2
8	V05171109A08	I1740931-03,31,10,10,,a NYCURVE	pH<2
9	V05171109A09	I1739837-02,31,10,10,,a NYTCL	pH<2
10	V05171109A10	I1739951-03D,31,0.2,10,,b NYTCL	HEAVY FOAM pH<2
11	V05171109A11	I1739951-04D,31,2,10,,b NYTCL	CLOUDY,FOAM pH<2
12	V05171109A12	I1740446-04D2,31,0.4,10,,c NYCURVE	CIS12DCEonly pH<2
13	V05171109A13	I1740451-03,31,10,10,,a NJ/15	pH<2
14	V05171109A14	I1740451-04,31,10,10,,a NJ/15	pH<2
15	V05171109A15	I1740451-05,31,10,10,,a NJ/15	pH<2
16	V05171109A16	I1740421-02,31,10,10,,a NJ/15	pH<2
17	V05171109A17	I1740421-01,31,10,10,,a NJ/15	pH<2
18	V05171109A18	I1739915-01,31,10,10,,a NJ/15	pH<2
19	V05171109A19	I1739915-02,31,10,10,,a NJ/15	pH<2
20	V05171109A20	I1739915-02DUP,31,10,10,,c NJ/15	pH<2
21	V05171109A21	I1739915-03,31,10,10,,a NJ/15	pH<2
22	V05171109A22	I1739915-03MS,31,10,10,,c NJ/15	pH<2



www.alphalab.com



Alpha Analytical

Laboratory Code: 11148

SDG Number: L1740596

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Table of Contents

New York ASP Category B Data Deliverable Package.....	1
Table of Contents	2
Sample ID Cross Reference	4
SDG Narrative	5
Data Qualifier Definitions	7
Instrument Information	9
Volatile Organics Instruments	9
Volatile Organics in Air Instruments	9
Semivolatile Organics Instruments - Westborough.....	10
Semivolatile Organic Instruments - Mansfield.....	11
Sample Log-in Sheet	12
Lims COC (LN01)	13
External Chain of Custody	15
Organics Analysis	16
GCMS 8260 Analysis	17
Volatiles QC Summary	18
Form 2 - Organics	19
Form 3 - Organics	20
Form 4 - Organics	22
Form 5 - Organics	23
Form 8 - Organics	25
MDL Study - Volatile Organics 8260	26
Volatiles Sample Data	35
Form 1 - Organics	36
BMW-13A (L1740596-01D) Analyzed: 11/10/17 14:18	52
BMW-19A (L1740596-03D) Analyzed: 11/10/17 14:45	60
MW-10A (L1740596-02) Analyzed: 11/10/17 15:13	68
MW-5A (L1740596-04) Analyzed: 11/10/17 15:41	77
BMW-16A (L1740596-05) Analyzed: 11/10/17 16:08	83
EB01-20171106 (L1740596-06) Analyzed: 11/10/17 16:36	90
TRIP BLANK (L1740596-07) Analyzed: 11/10/17 17:04	95
Volatile Standards Data	100
Initial Calibration	101
Form 6 - Organics	102
ICAL for VOA122 on 08/05/17 ICAL13890	105
Initial Calibration Summary - Cal Date: 08/05/17 00:00	105
BFB Injected on: 08/04/17 19:28	109
STD11 Injected on: 08/04/17 20:41	110
STD1 Injected on: 08/04/17 21:08	113
STD2 Injected on: 08/04/17 22:31	118
STD3 Injected on: 08/04/17 22:58	123
STD4 Injected on: 08/04/17 23:26	128
STD6 Injected on: 08/04/17 23:54	133
STD8 Injected on: 08/05/17 00:21	138
STD10 Injected on: 08/05/17 00:48	143
ICV Summary Form Injected on: 08/05/17 03:34	148
ICV Quant Report Injected on: 08/05/17 03:34	151
Continuing Calibration	156
Form 7 - Organics	157
CC Summary - VOA122 Run: 11/10/17 08:47	160

Table of Contents

CC Quant - VOA122 Run: 11/10/17 08:47	163
bfb tune - Inst. VOA122 11/10/17 07:54	168
Volatiles Raw QC Data	169
Laboratory Method BI (WG1061830-5) Analyzed: 11/10/17 10:09	170
Laboratory Control S (WG1061830-3) Analyzed: 11/10/17 08:47	174
LCS Duplicate (WG1061830-4) Analyzed: 11/10/17 09:14	230
Volatiles Calculations	286
QC Batch WG1061830	287
ICAL Sequence for VOA122 on 05-AUG-2017 00:00 ICAL13890	288
Sequence Log	289

Project Name: OLD CHAMPLAIN MILL
Project Number: 06.6448

Lab Number: L1740596
Report Date: 11/13/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1740596-01	BMW-13A	WATER	WHITEHALL, NY	11/06/17 10:45	11/06/17
L1740596-02	MW-10A	WATER	WHITEHALL, NY	11/06/17 09:30	11/06/17
L1740596-03	BMW-19A	WATER	WHITEHALL, NY	11/06/17 08:50	11/06/17
L1740596-04	MW-5A	WATER	WHITEHALL, NY	11/06/17 12:10	11/06/17
L1740596-05	BMW-16A	WATER	WHITEHALL, NY	11/06/17 13:15	11/06/17
L1740596-06	EB01-20171106	WATER	WHITEHALL, NY	11/06/17 11:15	11/06/17
L1740596-07	TRIP BLANK	WATER	WHITEHALL, NY	11/06/17 00:00	11/06/17

Project Name: OLD CHAMPLAIN MILL
Project Number: 06.6448

Lab Number: L1740596
Report Date: 11/13/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: OLD CHAMPLAIN MILL
Project Number: 06.6448

Lab Number: L1740596
Report Date: 11/13/17

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: *Melissa Cripps* Melissa Cripps

Report Date: 11/13/17

Title: Technical Director/Representative



GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: OLD CHAMPLAIN MILL
Project Number: 06.6448

Lab Number: L1740596
Report Date: 11/13/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.



Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 5975MSD (or equivalent)	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.52 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Herbicides

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-1701	df: 0.25
Column B: Restek RTX-5	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	

EPH

Instrument: Agilent 6890N w/FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	



Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (ECD):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm



Sample Delivery Group Summary

Alpha Job Number : L1740596

Received : 06-NOV-2017

Account Name : C.T. Male Associates

Reviewer : Richard Scott

Project Number : 066448

Project Name : OLD CHAMPLAIN MILL

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	5.7	

Condition Information

All samples on COC received? **YES**

Extra samples received? **NO**

Are there any sample container discrepancies? **NO**

Are there any discrepancies between sample labels & COC? **NO**

Are samples in appropriate containers for requested analysis? **YES**

Are samples properly preserved for requested analysis? **YES**

Are samples within holding time for requested analysis? **YES**

All sampling equipment returned? **NA**

Volatile Organics/VPH

Reagent Water Vials Frozen by Client? **NO**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 13 2017, 01:18 pm

Login Number: L1740596

Account: CTMALE C.T. Male Associates Project: 06.6448

Sample #	Client ID	Received: 06NOV17 Mat PR Collected	Due Date: 13NOV17 Container
L1740596-01	BMW-13A	1 S0 06NOV17 10:45	3-Vial-B
8260: Report List Built (EPA TCL SOM01.2) curve.sub ASP-B Package Due Date: 11/15/17			
ASP-B,NYTCL-8260-R2			
L1740596-02	MW-10A	1 S0 06NOV17 09:30	3-Vial-B
8260: Report List Built (EPA TCL SOM01.2) curve.sub Package Due Date: 11/15/17			
NYTCL-8260-R2			
L1740596-03	BMW-19A	1 S0 06NOV17 08:50	3-Vial-B
8260: Report List Built (EPA TCL SOM01.2) curve.sub Package Due Date: 11/15/17			
NYTCL-8260-R2			
L1740596-04	MW-5A	1 S0 06NOV17 12:10	3-Vial-B
8260: Report List Built (EPA TCL SOM01.2) curve.sub Package Due Date: 11/15/17			
NYTCL-8260-R2			
L1740596-05	BMW-16A	1 S0 06NOV17 13:15	3-Vial-B
8260: Report List Built (EPA TCL SOM01.2) curve.sub Package Due Date: 11/15/17			
NYTCL-8260-R2			
L1740596-06	EB01-20171106	1 S0 06NOV17 11:15	3-Vial-B
8260: Report List Built (EPA TCL SOM01.2) curve.sub Package Due Date: 11/15/17			
NYTCL-8260-R2			
L1740596-07	TRIP BLANK	1 S0 06NOV17 00:00	2-Vial-B
8260: Report List Built (EPA TCL SOM01.2) curve.sub Package Due Date: 11/15/17			

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Nov 13 2017, 01:18 pm

Login Number: L1740596

Account: CTMALE C.T. Male Associates Project: 06.6448

Sample #	Client ID	Received: 06NOV17 Mat PR Collected	Due Date: 13NOV17 Container
----------	-----------	---------------------------------------	--------------------------------

NYTCL-8260-R2

Organics

GC/MS 8260

Analysis

Volatiles QC Summary

Form 2 Surrogate Recovery VOLATILES

Client: C.T. Male Associates
Project Name: OLD CHAMPLAIN MILL

Lab Number: L1740596
Project Number: 06.6448
Matrix:

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
BMW-13A (L1740596-01D)	108	108	110	95	0
MW-10A (L1740596-02)	111	107	107	96	0
BMW-19A (L1740596-03D)	109	105	108	95	0
MW-5A (L1740596-04)	112	107	106	96	0
BMW-16A (L1740596-05)	109	107	108	96	0
EB01-20171106 (L1740596-06)	112	107	107	97	0
TRIP BLANK (L1740596-07)	109	108	108	95	0
WG1061830-3LCS	109	107	106	97	0
WG1061830-4LCSD	110	106	108	96	0
WG1061830-5BLANK	111	108	108	97	0

QC LIMITS

(70-130) DCA = 1,2-DICHLOROETHANE-D4
 (70-130) TOL = TOLUENE-D8
 (70-130) BFB = 4-BROMOFLUOROBENZENE
 (70-130) DBFM = DIBROMOFLUOROMETHANE)

* Values outside of QC limits

FORM II NYTCL-8260-R2



Laboratory Control Sample Form 3

Client	: C.T. Male Associates	Lab Number	: L1740596
Project Name	: OLD CHAMPLAIN MILL	Project Number	: 06.6448
Matrix	: WATER		
LCS Sample ID	: WG1061830-3	Analysis Date	: 11/10/17 08:47
LCS Sample ID	: WG1061830-4	Analysis Date	: 11/10/17 09:14
		File ID	: V22171110A02
		File ID	: V22171110A03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Methylene chloride	10	8.7	87	10	8.7	87	0	70-130	20
1,1-Dichloroethane	10	9.8	98	10	9.6	96	2	70-130	20
Chloroform	10	9.2	92	10	9.3	93	1	70-130	20
Carbon tetrachloride	10	9.8	98	10	9.5	95	3	63-132	20
1,2-Dichloropropane	10	9.8	98	10	9.7	97	1	70-130	20
Dibromochloromethane	10	8.6	86	10	8.7	87	1	63-130	20
1,1,2-Trichloroethane	10	9.4	94	10	9.6	96	2	70-130	20
Tetrachloroethene	10	8.4	84	10	8.2	82	2	70-130	20
Chlorobenzene	10	9.2	92	10	9.2	92	0	75-130	20
Trichlorofluoromethane	10	10.	100	10	9.6	96	4	62-150	20
1,2-Dichloroethane	10	10.	100	10	9.9	99	1	70-130	20
1,1,1-Trichloroethane	10	9.2	92	10	9.0	90	2	67-130	20
Bromodichloromethane	10	8.7	87	10	8.8	88	1	67-130	20
trans-1,3-Dichloropropene	10	9.0	90	10	9.0	90	0	70-130	20
cis-1,3-Dichloropropene	10	8.4	84	10	8.4	84	0	70-130	20
Bromoform	10	5.5	55	10	5.6	56	2	54-136	20
1,1,2,2-Tetrachloroethane	10	9.7	97	10	10.	100	3	67-130	20
Benzene	10	9.6	96	10	9.7	97	1	70-130	20
Toluene	10	9.8	98	10	9.6	96	2	70-130	20
Ethylbenzene	10	9.8	98	10	9.6	96	2	70-130	20
Chloromethane	10	7.5	75	10	7.7	77	3	64-130	20
Bromomethane	10	5.6	56	10	5.1	51	9	39-139	20
Vinyl chloride	10	11.	110	10	11.	110	0	55-140	20
Chloroethane	10	12.	120	10	12.	120	0	55-138	20
1,1-Dichloroethene	10	8.6	86	10	8.5	85	1	61-145	20
trans-1,2-Dichloroethene	10	8.7	87	10	8.3	83	5	70-130	20
Trichloroethene	10	9.2	92	10	9.1	91	1	70-130	20
1,2-Dichlorobenzene	10	9.4	94	10	9.4	94	0	70-130	20



Laboratory Control Sample Form 3

Client : C.T. Male Associates	Lab Number : L1740596
Project Name : OLD CHAMPLAIN MILL	Project Number : 06.6448
Matrix : WATER	
LCS Sample ID : WG1061830-3	Analysis Date : 11/10/17 08:47
LCS Sample ID : WG1061830-4	Analysis Date : 11/10/17 09:14
	File ID : V22171110A02
	File ID : V22171110A03

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
1,3-Dichlorobenzene	10	9.6	96	10	9.5	95	1	70-130	20
1,4-Dichlorobenzene	10	9.5	95	10	9.6	96	1	70-130	20
Methyl tert butyl ether	10	8.0	80	10	8.2	82	2	63-130	20
p/m-Xylene	20	19.	95	20	19.	95	0	70-130	20
o-Xylene	20	22.	110	20	22.	110	0	70-130	20
cis-1,2-Dichloroethene	10	8.8	88	10	8.6	86	2	70-130	20
Styrene	20	9.0	45 Q	20	8.9	44 Q	2	70-130	20
Dichlorodifluoromethane	10	11.	110	10	11.	110	0	36-147	20
Acetone	10	8.7	87	10	8.9	89	2	58-148	20
Carbon disulfide	10	8.9	89	10	8.7	87	2	51-130	20
2-Butanone	10	9.8	98	10	10.	100	2	63-138	20
4-Methyl-2-pentanone	10	9.0	90	10	9.6	96	6	59-130	20
2-Hexanone	10	10.	100	10	10.	100	0	57-130	20
Bromochloromethane	10	8.8	88	10	8.8	88	0	70-130	20
1,2-Dibromoethane	10	8.4	84	10	8.5	85	1	70-130	20
1,2-Dibromo-3-chloropropane	10	7.1	71	10	7.6	76	7	41-144	20
Isopropylbenzene	10	10.	100	10	10.	100	0	70-130	20
1,2,3-Trichlorobenzene	10	7.0	70	10	7.1	71	1	70-130	20
1,2,4-Trichlorobenzene	10	7.3	73	10	7.4	74	1	70-130	20
Methyl Acetate	10	10.	100	10	10.	100	0	70-130	20
Cyclohexane	10	11.	110	10	10.	100	10	70-130	20
1,4-Dioxane	500	420	84	500	390	78	7	56-162	20
Freon-113	10	10.	100	10	9.7	97	3	70-130	20
Methyl cyclohexane	10	9.9	99	10	9.6	96	3	70-130	20



Method Blank Summary Form 4

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Lab Sample ID : WG1061830-5
Instrument ID : VOA122
Matrix : WATER
Lab Number : L1740596
Project Number : 06.6448
Lab File ID : V22171110A05
Analysis Date : 11/10/17 10:09

Client Sample No.	Lab Sample ID	Analysis Date
WG1061830-3LCS	WG1061830-3	11/10/17 08:47
WG1061830-4LCSD	WG1061830-4	11/10/17 09:14
BMW-13A	L1740596-01D	11/10/17 14:18
BMW-19A	L1740596-03D	11/10/17 14:45
MW-10A	L1740596-02	11/10/17 15:13
MW-5A	L1740596-04	11/10/17 15:41
BMW-16A	L1740596-05	11/10/17 16:08
EB01-20171106	L1740596-06	11/10/17 16:36
TRIP BLANK	L1740596-07	11/10/17 17:04



**Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5**

Client : C.T. Male Associates	Lab Number : L1740596
Project Name : OLD CHAMPLAIN MILL	Project Number : 06.6448
Instrument ID : VOA122	Analysis Date : 08/04/17 19:28
Tune Standard : WG1029271-1	Tune File ID : V22170804ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	15.8
75	30.0 - 60.0% of mass 95	45.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.8 (.9)1
174	Greater than 50.0 of mass 95	94.1
175	5.0 - 9.0% of mass 174	6.8 (7.2)1
176	95.0 - 101% of mass 174	90.6 (96.3)1
177	5.0 - 9.0% of mass 176	6 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD11	R990883-1	V22170804A03	08/04/17 20:41
STD1	R990883-2	V22170804A04	08/04/17 21:08
STD2	R990883-3	V22170804A07	08/04/17 22:31
STD3	R990883-4	V22170804A08	08/04/17 22:58
STD4	R990883-5	V22170804A09	08/04/17 23:26
STD6	R990883-6	V22170804A10	08/04/17 23:54
STD8	R990883-8	V22170804A11	08/05/17 00:21
STD10	R990883-7	V22170804A12	08/05/17 00:48
ICV Quant Report	R990883-9	V22170804A18	08/05/17 03:34



**Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5**

Client : C.T. Male Associates	Lab Number : L1740596
Project Name : OLD CHAMPLAIN MILL	Project Number : 06.6448
Instrument ID : VOA122	Analysis Date : 11/10/17 07:54
Tune Standard : WG1061830-1	Tune File ID : V22171110ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21
75	30.0 - 60.0% of mass 95	50.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1.2 (1.6)1
174	Greater than 50.0 of mass 95	79.8
175	5.0 - 9.0% of mass 174	6.5 (8.1)1
176	95.0 - 101% of mass 174	76.4 (95.7)1
177	5.0 - 9.0% of mass 176	5 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1061830-2CCAL	WG1061830-2	V22171110A02	11/10/17 08:47
WG1061830-3LCS	WG1061830-3	V22171110A02	11/10/17 08:47
WG1061830-4LCSD	WG1061830-4	V22171110A03	11/10/17 09:14
WG1061830-5BLANK	WG1061830-5	V22171110A05	11/10/17 10:09
BMW-13A	L1740596-01D	V22171110A14	11/10/17 14:18
BMW-19A	L1740596-03D	V22171110A15	11/10/17 14:45
MW-10A	L1740596-02	V22171110A16	11/10/17 15:13
MW-5A	L1740596-04	V22171110A17	11/10/17 15:41
BMW-16A	L1740596-05	V22171110A18	11/10/17 16:08
EB01-20171106	L1740596-06	V22171110A19	11/10/17 16:36
TRIP BLANK	L1740596-07	V22171110A20	11/10/17 17:04



Internal Standard Area and RT Summary Form 8

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Instrument ID : VOA122
 Sample No : WG1061830-2

Lab Number : L1740596
 Project Number : 06.6448
 Analysis Date : 11/10/17 08:47
 Lab File ID : V22171110A02

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1061830-2	209053	6.09	165135	9.65	86857	12.34
Upper Limit	418106	6.59	330270	10.15	173714	12.84
Lower Limit	104527	5.59	82568	9.15	43429	11.84
Sample ID						
WG1061830-3 LCS	209053	6.09	165135	9.65	86857	12.34
WG1061830-4 LCSD	215006	6.09	169966	9.65	87757	12.34
WG1061830-5 BLANK	207656	6.09	161680	9.65	78156	12.34
BMW-13A	197175	6.09	155918	9.65	74560	12.34
BMW-19A	199280	6.09	159007	9.65	76196	12.34
MW-10A	201806	6.09	159980	9.65	78140	12.34
MW-5A	201843	6.09	158306	9.65	77758	12.34
BMW-16A	198987	6.09	156755	9.65	75951	12.34
EB01-20171106	198206	6.09	156532	9.65	75597	12.34
TRIP BLANK	199042	6.09	155153	9.65	74605	12.34

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits





Date Created: 08/11/17
 Created By: Jason Hebert
 File: PM3913-1
 Page: 1

Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
 Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20	
1,1-Dichloroethane	75-34-3	0.75	0.21	ug/l	70-130	20	70-130	20	20	
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20	
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20	
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20	
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20	
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20	
2-Chloroethylvinyl ether	110-75-8	10	0.402	ug/l	70-130	20	70-130	20	20	
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20	
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25	
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20	
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20	
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20	
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20	
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20	
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20	
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20	
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20	
1,1-Dichloropropene	563-58-6	2.5	0.24	ug/l	70-130	20	70-130	20	20	
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20	
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20	
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25	
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25	
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20	
Chloromethane	74-87-3	2.5	0.2	ug/l	64-130	20	64-130	20	20	
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20	
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20	
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20	
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25	
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20	
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20	
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20	
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25	
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20	
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20	
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20	
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20	
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20	
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20	
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20	
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20	
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



8 Walkup Drive, Westborough, Massachusetts 01581 • 508-898-9220 • www.alphalab.com

Westborough, MA • Mansfield, MA • Bangor, ME • Portsmouth, NH • Mahwah, NJ • Albany, NY • Buffalo, NY • Holmes, PA





Date Created: 08/11/17
 Created By: Jason Hebert
 File: PM3913-1
 Page: 2

Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
 Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20	
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20	
Iodomethane	74-88-4	5	0.398	ug/l	70-130	20	70-130	20	20	
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20	
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20	
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20	
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20	
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20	
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20	
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20	
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20	
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20	
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20	
Acrolein	107-02-8	5	0.441	ug/l	70-130	20	70-130	20	20	
Acrylonitrile	107-13-1	5	0.43	ug/l	70-130	20	70-130	20	20	
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20	
Tetrahydrofuran	109-99-9	5	0.834	ug/l	58-130	20	58-130	20	20	
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20	
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20	
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20	
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20	
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20	
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20	
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20	
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20	
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20	
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20	
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20	
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20	
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20	
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20	
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20	
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20	
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20	
1,2,4-Trichlorobenzene	120-82-1	2.5	0.22	ug/l	70-130	20	70-130	20	20	
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20	
1,3,5-Trichlorobenzene	108-70-3	2	0.141	ug/l	70-130	20	70-130	20	20	
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20	
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20	
Halothane	151-67-7	2.5	0.287	ug/l	70-130	20	70-130	30	30	
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20	
Methyl Acetate	79-20-9	10	0.234	ug/l	70-130	20	70-130	20	20	

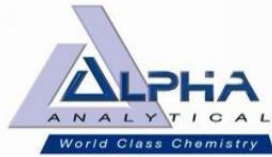
Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



8 Walkup Drive, Westborough, Massachusetts 01581 • 508-898-9220 • www.alphalab.com

Westborough, MA • Mansfield, MA • Bangor, ME • Portsmouth, NH • Mahwah, NJ • Albany, NY • Buffalo, NY • Holmes, PA





Date Created: 11/07/16
 Created By: Jason Hebert
 File: PM2971-1
 Page: 1

Volatile Organics - EPA 8260C/5035 High (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - Vial MeOH preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Methylene chloride	75-09-2	500	55.2	ug/kg	70-130	30	70-130	30	30	
1,1-Dichloroethane	75-34-3	75	4.28	ug/kg	70-130	30	70-130	30	30	
Chloroform	67-66-3	75	18.5	ug/kg	70-130	30	70-130	30	30	
Carbon tetrachloride	56-23-5	50	10.5	ug/kg	70-130	30	70-130	30	30	
1,2-Dichloropropane	78-87-5	175	11.4	ug/kg	70-130	30	70-130	30	30	
Dibromochloromethane	124-48-1	50	7.68	ug/kg	70-130	30	70-130	30	30	
1,1,2-Trichloroethane	79-00-5	75	15.2	ug/kg	70-130	30	70-130	30	30	
Tetrachloroethene	127-18-4	50	7.01	ug/kg	70-130	30	70-130	30	30	
Chlorobenzene	108-90-7	50	17.4	ug/kg	70-130	30	70-130	30	30	
Trichlorofluoromethane	75-69-4	250	19.4	ug/kg	70-139	30	70-139	30	30	
1,2-Dichloroethane	107-06-2	50	5.67	ug/kg	70-130	30	70-130	30	30	
1,1,1-Trichloroethane	71-55-6	50	5.54	ug/kg	70-130	30	70-130	30	30	
Bromodichloromethane	75-27-4	50	8.66	ug/kg	70-130	30	70-130	30	30	
trans-1,3-Dichloropropene	10061-02-6	50	6.04	ug/kg	70-130	30	70-130	30	30	
cis-1,3-Dichloropropene	10061-01-5	50	5.88	ug/kg	70-130	30	70-130	30	30	
1,3-Dichloropropene, Total	542-75-6	50	5.88	ug/kg				30	30	
1,3-Dichloropropene, Total	542-75-6	50	5.88	ug/kg				30	30	
1,1-Dichloropropene	563-58-6	250	7.07	ug/kg	70-130	30	70-130	30	30	
Bromoform	75-25-2	200	11.8	ug/kg	70-130	30	70-130	30	30	
1,1,2,2-Tetrachloroethane	79-34-5	50	5.04	ug/kg	70-130	30	70-130	30	30	
Benzene	71-43-2	50	5.9	ug/kg	70-130	30	70-130	30	30	
Toluene	108-88-3	75	9.74	ug/kg	70-130	30	70-130	30	30	
Ethylbenzene	100-41-4	50	6.37	ug/kg	70-130	30	70-130	30	30	
Chloromethane	74-87-3	250	14.7	ug/kg	52-130	30	52-130	30	30	
Bromomethane	74-83-9	100	16.9	ug/kg	57-147	30	57-147	30	30	
Vinyl chloride	75-01-4	100	5.87	ug/kg	67-130	30	67-130	30	30	
Chloroethane	75-00-3	100	15.8	ug/kg	50-151	30	50-151	30	30	
1,1-Dichloroethene	75-35-4	50	13.1	ug/kg	65-135	30	65-135	30	30	
trans-1,2-Dichloroethene	156-60-5	75	10.6	ug/kg	70-130	30	70-130	30	30	
Trichloroethene	79-01-6	50	6.25	ug/kg	70-130	30	70-130	30	30	
1,2-Dichlorobenzene	95-50-1	250	7.66	ug/kg	70-130	30	70-130	30	30	
1,3-Dichlorobenzene	541-73-1	250	6.75	ug/kg	70-130	30	70-130	30	30	
1,4-Dichlorobenzene	106-46-7	250	6.92	ug/kg	70-130	30	70-130	30	30	
Methyl tert butyl ether	1634-04-4	100	4.22	ug/kg	66-130	30	66-130	30	30	
p/m-Xylene	179601-23-1	100	17.55	ug/kg	70-130	30	70-130	30	30	
o-Xylene	95-47-6	100	16.9	ug/kg	70-130	30	70-130	30	30	
Xylene (Total)	1330-20-7	100	8.59	ug/kg				30	30	
Xylene (Total)	1330-20-7	100	8.59	ug/kg				30	30	
cis-1,2-Dichloroethene	156-59-2	50	7.14	ug/kg	70-130	30	70-130	30	30	
1,2-Dichloroethene (total)	540-59-0	50	7.14	ug/kg				30	30	
1,2-Dichloroethene (total)	540-59-0	50	7.14	ug/kg				30	30	
Dibromomethane	74-95-3	500	8.18	ug/kg	70-130	30	70-130	30	30	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



8 Walkup Drive, Westborough, Massachusetts 01581 • 508-898-9220 • www.alphalab.com
 Westborough, MA • Mansfield, MA • Bangor, ME • Portsmouth, NH • Mahwah, NJ • Albany, NY • Buffalo, NY • Holmes, PA





Date Created: 11/07/16
 Created By: Jason Hebert
 File: PM2971-1
 Page: 2

Volatile Organics - EPA 8260C/5035 High (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - Vial MeOH preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
1,4-Dichlorobutane	110-56-5	500	6.6	ug/kg	70-130	30	70-130	30	30	
1,2,3-Trichloropropane	96-18-4	500	8.13	ug/kg	68-130	30	68-130	30	30	
Styrene	100-42-5	100	20.1	ug/kg	70-130	30	70-130	30	30	
Dichlorodifluoromethane	75-71-8	500	9.54	ug/kg	30-146	30	30-146	30	30	
Acetone	67-64-1	1800	51.8	ug/kg	54-140	30	54-140	30	30	
Carbon disulfide	75-15-0	500	55.1	ug/kg	59-130	30	59-130	30	30	
2-Butanone	78-93-3	500	13.6	ug/kg	70-130	30	70-130	30	30	
Vinyl acetate	108-05-4	500	6.61	ug/kg	70-130	30	70-130	30	30	
4-Methyl-2-pentanone	108-10-1	500	12.2	ug/kg	70-130	30	70-130	30	30	
2-Hexanone	591-78-6	500	33.3	ug/kg	70-130	30	70-130	30	30	
Ethyl methacrylate	97-63-2	500	7.73	ug/kg	70-130	30	70-130	30	30	
Acrylonitrile	107-13-1	200	25.7	ug/kg	70-130	30	70-130	30	30	
Bromochloromethane	74-97-5	250	13.8	ug/kg	70-130	30	70-130	30	30	
Tetrahydrofuran	109-99-9	1000	49.8	ug/kg	66-130	30	66-130	30	30	
2,2-Dichloropropane	594-20-7	250	11.3	ug/kg	70-130	30	70-130	30	30	
1,2-Dibromoethane	106-93-4	200	8.72	ug/kg	70-130	30	70-130	30	30	
1,3-Dichloropropane	142-28-9	250	7.26	ug/kg	69-130	30	69-130	30	30	
1,1,1,2-Tetrachloroethane	630-20-6	50	15.9	ug/kg	70-130	30	70-130	30	30	
Bromobenzene	108-86-1	250	10.4	ug/kg	70-130	30	70-130	30	30	
n-Butylbenzene	104-51-8	50	5.74	ug/kg	70-130	30	70-130	30	30	
sec-Butylbenzene	135-98-8	50	6.1	ug/kg	70-130	30	70-130	30	30	
tert-Butylbenzene	98-06-6	250	6.77	ug/kg	70-130	30	70-130	30	30	
1,3,5-Trichlorobenzene	108-70-3	200	11.5	ug/kg	70-130	30	70-130	30	30	
o-Chlorotoluene	95-49-8	250	7.99	ug/kg	70-130	30	70-130	30	30	
p-Chlorotoluene	106-43-4	250	6.64	ug/kg	70-130	30	70-130	30	30	
1,2-Dibromo-3-chloropropane	96-12-8	250	19.8	ug/kg	68-130	30	68-130	30	30	
Hexachlorobutadiene	87-68-3	250	11.4	ug/kg	67-130	30	67-130	30	30	
Isopropylbenzene	98-82-8	50	5.19	ug/kg	70-130	30	70-130	30	30	
p-Isopropyltoluene	99-87-6	50	6.25	ug/kg	70-130	30	70-130	30	30	
Naphthalene	91-20-3	250	6.92	ug/kg	70-130	30	70-130	30	30	
n-Propylbenzene	103-65-1	50	5.46	ug/kg	70-130	30	70-130	30	30	
1,2,3-Trichlorobenzene	87-61-6	250	7.38	ug/kg	70-130	30	70-130	30	30	
1,2,4-Trichlorobenzene	120-82-1	250	9.09	ug/kg	70-130	30	70-130	30	30	
1,3,5-Trimethylbenzene	108-67-8	250	7.17	ug/kg	70-130	30	70-130	30	30	
1,2,4-Trimethylbenzene	95-63-6	250	7.07	ug/kg	70-130	30	70-130	30	30	
trans-1,4-Dichloro-2-butene	110-57-6	250	19.6	ug/kg	70-130	30	70-130	30	30	
iso-Propyl Alcohol	67-63-0	5000	5000	ug/kg	70-130	20	70-130	20	20	
Ethyl ether	60-29-7	250	13	ug/kg	67-130	30	67-130	30	30	
Methyl Acetate	79-20-9	1000	13.5	ug/kg	65-130	30	65-130	30	30	
Ethyl Acetate	141-78-6	1000	46.1	ug/kg	70-130	30	70-130	30	30	
Isopropyl Ether	108-20-3	200	6.98	ug/kg	66-130	30	66-130	30	30	
Cyclohexane	110-82-7	1000	7.3	ug/kg	70-130	30	70-130	30	30	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



8 Walkup Drive, Westborough, Massachusetts 01581 • 508-898-9220 • www.alphalab.com

Westborough, MA • Mansfield, MA • Bangor, ME • Portsmouth, NH • Mahwah, NJ • Albany, NY • Buffalo, NY • Holmes, PA





Date Created: 11/07/16
 Created By: Jason Hebert
 File: PM2971-1
 Page: 1

VOCs - EPA 8260C/5035 High & Low (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

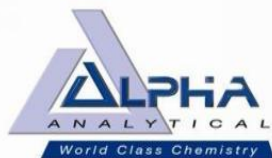
Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Methylene chloride	75-09-2	10	1.104	ug/kg	70-130	30	70-130	30	30	
1,1-Dichloroethane	75-34-3	1.5	0.0856	ug/kg	70-130	30	70-130	30	30	
Chloroform	67-66-3	1.5	0.37	ug/kg	70-130	30	70-130	30	30	
Carbon tetrachloride	56-23-5	1	0.21	ug/kg	70-130	30	70-130	30	30	
1,2-Dichloropropane	78-87-5	3.5	0.228	ug/kg	70-130	30	70-130	30	30	
Dibromochloromethane	124-48-1	1	0.1536	ug/kg	70-130	30	70-130	30	30	
1,1,2-Trichloroethane	79-00-5	1.5	0.304	ug/kg	70-130	30	70-130	30	30	
Tetrachloroethene	127-18-4	1	0.1402	ug/kg	70-130	30	70-130	30	30	
Chlorobenzene	108-90-7	1	0.348	ug/kg	70-130	30	70-130	30	30	
Trichlorofluoromethane	75-69-4	5	0.388	ug/kg	70-139	30	70-139	30	30	
1,2-Dichloroethane	107-06-2	1	0.1134	ug/kg	70-130	30	70-130	30	30	
1,1,1-Trichloroethane	71-55-6	1	0.1108	ug/kg	70-130	30	70-130	30	30	
Bromodichloromethane	75-27-4	1	0.1732	ug/kg	70-130	30	70-130	30	30	
trans-1,3-Dichloropropene	10061-02-6	1	0.1208	ug/kg	70-130	30	70-130	30	30	
cis-1,3-Dichloropropene	10061-01-5	1	0.1176	ug/kg	70-130	30	70-130	30	30	
1,3-Dichloropropene, Total	542-75-6	1	0.1176	ug/kg				30	30	
1,3-Dichloropropene, Total	542-75-6	1	0.1176	ug/kg				30	30	
1,1-Dichloropropene	563-58-6	5	0.1414	ug/kg	70-130	30	70-130	30	30	
Bromoform	75-25-2	4	0.236	ug/kg	70-130	30	70-130	30	30	
1,1,2,2-Tetrachloroethane	79-34-5	1	0.1008	ug/kg	70-130	30	70-130	30	30	
Benzene	71-43-2	1	0.118	ug/kg	70-130	30	70-130	30	30	
Toluene	108-88-3	1.5	0.1948	ug/kg	70-130	30	70-130	30	30	
Ethylbenzene	100-41-4	1	0.1274	ug/kg	70-130	30	70-130	30	30	
Chloromethane	74-87-3	5	0.294	ug/kg	52-130	30	52-130	30	30	
Bromomethane	74-83-9	2	0.338	ug/kg	57-147	30	57-147	30	30	
Vinyl chloride	75-01-4	2	0.1174	ug/kg	67-130	30	67-130	30	30	
Chloroethane	75-00-3	2	0.316	ug/kg	50-151	30	50-151	30	30	
1,1-Dichloroethene	75-35-4	1	0.262	ug/kg	65-135	30	65-135	30	30	
trans-1,2-Dichloroethene	156-60-5	1.5	0.212	ug/kg	70-130	30	70-130	30	30	
Trichloroethene	79-01-6	1	0.125	ug/kg	70-130	30	70-130	30	30	
1,2-Dichlorobenzene	95-50-1	5	0.1532	ug/kg	70-130	30	70-130	30	30	
1,3-Dichlorobenzene	541-73-1	5	0.135	ug/kg	70-130	30	70-130	30	30	
1,4-Dichlorobenzene	106-46-7	5	0.1384	ug/kg	70-130	30	70-130	30	30	
Methyl tert butyl ether	1634-04-4	2	0.0844	ug/kg	66-130	30	66-130	30	30	
p/m-Xylene	179601-23-1	2	0.351	ug/kg	70-130	30	70-130	30	30	
o-Xylene	95-47-6	2	0.338	ug/kg	70-130	30	70-130	30	30	
Xylene (Total)	1330-20-7	2	0.1718	ug/kg				30	30	
Xylene (Total)	1330-20-7	2	0.1718	ug/kg				30	30	
cis-1,2-Dichloroethene	156-59-2	1	0.1428	ug/kg	70-130	30	70-130	30	30	
1,2-Dichloroethene (total)	540-59-0	1	0.1428	ug/kg				30	30	
1,2-Dichloroethene (total)	540-59-0	1	0.1428	ug/kg				30	30	
Dibromomethane	74-95-3	10	0.1636	ug/kg	70-130	30	70-130	30	30	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



8 Walkup Drive, Westborough, Massachusetts 01581 • 508-898-9220 • www.alphalab.com
 Westborough, MA • Mansfield, MA • Bangor, ME • Portsmouth, NH • Mahwah, NJ • Albany, NY • Buffalo, NY • Holmes, PA





Date Created: 11/07/16
 Created By: Jason Hebert
 File: PM2971-1
 Page: 2

VOCs - EPA 8260C/5035 High & Low (SOIL)

Holding Time: 14 days
 Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
1,4-Dichlorobutane	110-56-5	10	0.132	ug/kg	70-130	30	70-130	30	30	
1,2,3-Trichloropropane	96-18-4	10	0.1626	ug/kg	68-130	30	68-130	30	30	
Styrene	100-42-5	2	0.402	ug/kg	70-130	30	70-130	30	30	
Dichlorodifluoromethane	75-71-8	10	0.1908	ug/kg	30-146	30	30-146	30	30	
Acetone	67-64-1	36	1.036	ug/kg	54-140	30	54-140	30	30	
Carbon disulfide	75-15-0	10	1.102	ug/kg	59-130	30	59-130	30	30	
2-Butanone	78-93-3	10	0.272	ug/kg	70-130	30	70-130	30	30	
Vinyl acetate	108-05-4	10	0.1322	ug/kg	70-130	30	70-130	30	30	
4-Methyl-2-pentanone	108-10-1	10	0.244	ug/kg	70-130	30	70-130	30	30	
2-Hexanone	591-78-6	10	0.666	ug/kg	70-130	30	70-130	30	30	
Ethyl methacrylate	97-63-2	10	0.1546	ug/kg	70-130	30	70-130	30	30	
Acrylonitrile	107-13-1	4	0.514	ug/kg	70-130	30	70-130	30	30	
Bromochloromethane	74-97-5	5	0.276	ug/kg	70-130	30	70-130	30	30	
Tetrahydrofuran	109-99-9	20	0.996	ug/kg	66-130	30	66-130	30	30	
2,2-Dichloropropane	594-20-7	5	0.226	ug/kg	70-130	30	70-130	30	30	
1,2-Dibromoethane	106-93-4	4	0.1744	ug/kg	70-130	30	70-130	30	30	
1,3-Dichloropropane	142-28-9	5	0.1452	ug/kg	69-130	30	69-130	30	30	
1,1,1,2-Tetrachloroethane	630-20-6	1	0.318	ug/kg	70-130	30	70-130	30	30	
Bromobenzene	108-86-1	5	0.208	ug/kg	70-130	30	70-130	30	30	
n-Butylbenzene	104-51-8	1	0.1148	ug/kg	70-130	30	70-130	30	30	
sec-Butylbenzene	135-98-8	1	0.122	ug/kg	70-130	30	70-130	30	30	
tert-Butylbenzene	98-06-6	5	0.1354	ug/kg	70-130	30	70-130	30	30	
1,3,5-Trichlorobenzene	108-70-3	4	0.23	ug/kg	70-130	30	70-130	30	30	
o-Chlorotoluene	95-49-8	5	0.1598	ug/kg	70-130	30	70-130	30	30	
p-Chlorotoluene	106-43-4	5	0.1328	ug/kg	70-130	30	70-130	30	30	
1,2-Dibromo-3-chloropropane	96-12-8	5	0.396	ug/kg	68-130	30	68-130	30	30	
Hexachlorobutadiene	87-68-3	5	0.228	ug/kg	67-130	30	67-130	30	30	
Isopropylbenzene	98-82-8	1	0.1038	ug/kg	70-130	30	70-130	30	30	
p-Isopropyltoluene	99-87-6	1	0.125	ug/kg	70-130	30	70-130	30	30	
Naphthalene	91-20-3	5	0.1384	ug/kg	70-130	30	70-130	30	30	
n-Propylbenzene	103-65-1	1	0.1092	ug/kg	70-130	30	70-130	30	30	
1,2,3-Trichlorobenzene	87-61-6	5	0.1476	ug/kg	70-130	30	70-130	30	30	
1,2,4-Trichlorobenzene	120-82-1	5	0.1818	ug/kg	70-130	30	70-130	30	30	
1,3,5-Trimethylbenzene	108-67-8	5	0.1434	ug/kg	70-130	30	70-130	30	30	
1,2,4-Trimethylbenzene	95-63-6	5	0.1414	ug/kg	70-130	30	70-130	30	30	
trans-1,4-Dichloro-2-butene	110-57-6	5	0.392	ug/kg	70-130	30	70-130	30	30	
Ethyl ether	60-29-7	5	0.26	ug/kg	67-130	30	67-130	30	30	
Methyl Acetate	79-20-9	20	0.27	ug/kg	65-130	30	65-130	30	30	
Ethyl Acetate	141-78-6	20	0.922	ug/kg	70-130	30	70-130	30	30	
Isopropyl Ether	108-20-3	4	0.1396	ug/kg	66-130	30	66-130	30	30	
Cyclohexane	110-82-7	20	0.146	ug/kg	70-130	30	70-130	30	30	
Ethyl-Tert-Butyl-Ether	637-92-3	4	0.1158	ug/kg	70-130	30	70-130	30	30	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
 Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



8 Walkup Drive, Westborough, Massachusetts 01581 • 508-898-9220 • www.alphalab.com

Westborough, MA • Mansfield, MA • Bangor, ME • Portsmouth, NH • Mahwah, NJ • Albany, NY • Buffalo, NY • Holmes, PA



Volatiles Sample Data

Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-01D
 Client ID : BMW-13A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A14
 Sample Amount : 0.2 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 10:45
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 14:18
 Dilution Factor : 50
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	120	35.	U
75-34-3	1,1-Dichloroethane	ND	120	35.	U
67-66-3	Chloroform	ND	120	35.	U
56-23-5	Carbon tetrachloride	ND	25	6.7	U
78-87-5	1,2-Dichloropropane	ND	50	6.8	U
124-48-1	Dibromochloromethane	ND	25	7.4	U
79-00-5	1,1,2-Trichloroethane	ND	75	25.	U
127-18-4	Tetrachloroethene	ND	25	9.0	U
108-90-7	Chlorobenzene	ND	120	35.	U
75-69-4	Trichlorofluoromethane	ND	120	35.	U
107-06-2	1,2-Dichloroethane	ND	25	6.6	U
71-55-6	1,1,1-Trichloroethane	ND	120	35.	U
75-27-4	Bromodichloromethane	ND	25	9.6	U
10061-02-6	trans-1,3-Dichloropropene	ND	25	8.2	U
10061-01-5	cis-1,3-Dichloropropene	ND	25	7.2	U
75-25-2	Bromoform	ND	100	32.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	8.4	U
71-43-2	Benzene	ND	25	8.0	U
108-88-3	Toluene	ND	120	35.	U
100-41-4	Ethylbenzene	ND	120	35.	U
74-87-3	Chloromethane	ND	120	35.	U
74-83-9	Bromomethane	ND	120	35.	U
75-01-4	Vinyl chloride	640	50	3.6	
75-00-3	Chloroethane	ND	120	35.	U
75-35-4	1,1-Dichloroethene	ND	25	8.4	U
156-60-5	trans-1,2-Dichloroethene	ND	120	35.	U
79-01-6	Trichloroethene	ND	25	8.8	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-01D
 Client ID : BMW-13A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A14
 Sample Amount : 0.2 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 10:45
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 14:18
 Dilution Factor : 50
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	120	35.	U
541-73-1	1,3-Dichlorobenzene	ND	120	35.	U
106-46-7	1,4-Dichlorobenzene	ND	120	35.	U
1634-04-4	Methyl tert butyl ether	ND	120	35.	U
179601-23-1	p/m-Xylene	ND	120	35.	U
95-47-6	o-Xylene	ND	120	35.	U
156-59-2	cis-1,2-Dichloroethene	4300	120	35.	
100-42-5	Styrene	ND	120	35.	U
75-71-8	Dichlorodifluoromethane	ND	250	50.	U
67-64-1	Acetone	ND	250	73.	U
75-15-0	Carbon disulfide	ND	250	50.	U
78-93-3	2-Butanone	ND	250	97.	U
108-10-1	4-Methyl-2-pentanone	ND	250	50.	U
591-78-6	2-Hexanone	ND	250	50.	U
74-97-5	Bromochloromethane	ND	120	35.	U
106-93-4	1,2-Dibromoethane	ND	100	32.	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	120	35.	U
98-82-8	Isopropylbenzene	ND	120	35.	U
87-61-6	1,2,3-Trichlorobenzene	ND	120	35.	U
120-82-1	1,2,4-Trichlorobenzene	ND	120	35.	U
79-20-9	Methyl Acetate	ND	100	12.	U
110-82-7	Cyclohexane	ND	500	14.	U
123-91-1	1,4-Dioxane	ND	12000	3000	U
76-13-1	Freon-113	ND	120	35.	U
108-87-2	Methyl cyclohexane	ND	500	20.	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-02
 Client ID : MW-10A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A16
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 09:30
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 15:13
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	10	1.0	0.07	
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-02
 Client ID : MW-10A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A16
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 09:30
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 15:13
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	44	2.5	0.70	
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-03D
 Client ID : BMW-19A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A15
 Sample Amount : 0.5 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 08:50
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 14:45
 Dilution Factor : 20
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	50	14.	U
75-34-3	1,1-Dichloroethane	ND	50	14.	U
67-66-3	Chloroform	ND	50	14.	U
56-23-5	Carbon tetrachloride	ND	10	2.7	U
78-87-5	1,2-Dichloropropane	ND	20	2.7	U
124-48-1	Dibromochloromethane	ND	10	3.0	U
79-00-5	1,1,2-Trichloroethane	ND	30	10.	U
127-18-4	Tetrachloroethene	ND	10	3.6	U
108-90-7	Chlorobenzene	ND	50	14.	U
75-69-4	Trichlorofluoromethane	ND	50	14.	U
107-06-2	1,2-Dichloroethane	ND	10	2.6	U
71-55-6	1,1,1-Trichloroethane	ND	50	14.	U
75-27-4	Bromodichloromethane	ND	10	3.8	U
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.3	U
10061-01-5	cis-1,3-Dichloropropene	ND	10	2.9	U
75-25-2	Bromoform	ND	40	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	3.3	U
71-43-2	Benzene	ND	10	3.2	U
108-88-3	Toluene	ND	50	14.	U
100-41-4	Ethylbenzene	ND	50	14.	U
74-87-3	Chloromethane	ND	50	14.	U
74-83-9	Bromomethane	ND	50	14.	U
75-01-4	Vinyl chloride	460	20	1.4	
75-00-3	Chloroethane	ND	50	14.	U
75-35-4	1,1-Dichloroethene	ND	10	3.4	U
156-60-5	trans-1,2-Dichloroethene	ND	50	14.	U
79-01-6	Trichloroethene	ND	10	3.5	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-03D
 Client ID : BMW-19A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A15
 Sample Amount : 0.5 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 08:50
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 14:45
 Dilution Factor : 20
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	50	14.	U
541-73-1	1,3-Dichlorobenzene	ND	50	14.	U
106-46-7	1,4-Dichlorobenzene	ND	50	14.	U
1634-04-4	Methyl tert butyl ether	ND	50	14.	U
179601-23-1	p/m-Xylene	ND	50	14.	U
95-47-6	o-Xylene	ND	50	14.	U
156-59-2	cis-1,2-Dichloroethene	1500	50	14.	
100-42-5	Styrene	ND	50	14.	U
75-71-8	Dichlorodifluoromethane	ND	100	20.	U
67-64-1	Acetone	ND	100	29.	U
75-15-0	Carbon disulfide	ND	100	20.	U
78-93-3	2-Butanone	ND	100	39.	U
108-10-1	4-Methyl-2-pentanone	ND	100	20.	U
591-78-6	2-Hexanone	ND	100	20.	U
74-97-5	Bromochloromethane	ND	50	14.	U
106-93-4	1,2-Dibromoethane	ND	40	13.	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	14.	U
98-82-8	Isopropylbenzene	ND	50	14.	U
87-61-6	1,2,3-Trichlorobenzene	ND	50	14.	U
120-82-1	1,2,4-Trichlorobenzene	ND	50	14.	U
79-20-9	Methyl Acetate	ND	40	4.7	U
110-82-7	Cyclohexane	ND	200	5.4	U
123-91-1	1,4-Dioxane	ND	5000	1200	U
76-13-1	Freon-113	ND	50	14.	U
108-87-2	Methyl cyclohexane	ND	200	7.9	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-04
 Client ID : MW-5A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A17
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 12:10
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 15:41
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	0.61	0.50	0.18	



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-04
 Client ID : MW-5A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A17
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 12:10
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 15:41
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-05
 Client ID : BMW-16A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A18
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 13:15
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 16:08
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	1.3	1.0	0.07	
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-05
 Client ID : BMW-16A
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A18
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 13:15
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 16:08
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	4.4	2.5	0.70	
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-06
 Client ID : EB01-20171106
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A19
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 11:15
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 16:36
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-06
 Client ID : EB01-20171106
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A19
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 11:15
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 16:36
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-07
 Client ID : TRIP BLANK
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A20
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 00:00
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 17:04
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : L1740596-07
 Client ID : TRIP BLANK
 Sample Location : WHITEHALL, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A20
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : 11/06/17 00:00
 Date Received : 11/06/17
 Date Analyzed : 11/10/17 17:04
 Dilution Factor : 1
 Analyst : MKS
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : WG1061830-5
 Client ID : WG1061830-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/10/17 10:09
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U



Form 1 VOA

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Lab ID : WG1061830-5
 Client ID : WG1061830-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : V22171110A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1740596
 Project Number : 06.6448
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 11/10/17 10:09
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : VOA122
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A14.D
 Acq On : 10 Nov 2017 02:18 pm
 Operator : VOA122:MKS
 Sample : 11740596-01D,31,0.2,10,,a
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 10 14:41:58 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.091	96	197175	10.000	ug/L	0.00	
Standard Area 1 = 209053			Recovery =	94.32%			
62) Chlorobenzene-d5	9.646	117	155918	10.000	ug/L	-0.01	
Standard Area 1 = 165135			Recovery =	94.42%			
83) 1,4-Dichlorobenzene-d4	12.341	152	74560	10.000	ug/L	0.00	
Standard Area 1 = 86857			Recovery =	85.84%			
System Monitoring Compounds							
38) Dibromofluoromethane	5.265	113	48247	9.468	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.68%			
46) 1,2-Dichloroethane-d4	5.802	65	50705	10.750	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.50%			
63) Toluene-d8	7.790	98	202606	10.810	ug/L	-0.02	
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.10%			
87) 4-Bromofluorobenzene	11.133	95	70964	11.017	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	110.17%			
Target Compounds							
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	0.000		0		N.D. d		
4) Vinyl chloride	1.903	62	72122	12.809	ug/L	99	
5) Bromoethane	0.000		0		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	2.983	96	430	0.090	ug/L #	68	
11) Carbon disulfide	3.021	76	214		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	0.000		0		N.D.		
17) Acetone	0.000		0		N.D.		
18) trans-1,2-Dichloroethene	3.703	96	780	0.141	ug/L	95	
19) Methyl acetate	0.000		0		N.D.		
21) Methyl tert-butyl ether	0.000		0		N.D.		
25) 1,1-Dichloroethane	0.000		0		N.D.		
30) cis-1,2-Dichloroethene	4.820	96	513494	86.540	ug/L	91	
32) Bromochloromethane	0.000		0		N.D.		
33) Cyclohexane	0.000		0		N.D.		
34) Chloroform	0.000		0		N.D.		
36) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A14.D
 Acq On : 10 Nov 2017 02:18 pm
 Operator : VOA122:MKS
 Sample : 11740596-01D,31,0.2,10,,a
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 10 14:41:58 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	0.000		0		N.D.	
44) Benzene	0.000		0		N.D.	
47) 1,2-Dichloroethane	0.000		0		N.D.	
50) Methyl cyclohexane	0.000		0		N.D.	
51) Trichloroethene	0.000		0		N.D.	
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	0.000		0		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	0.000		0		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	9.636	91	177		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104) 1,3-Dichlorobenzene	0.000		0		N.D.	
105) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) 1,2-Dichlorobenzene	0.000		0		N.D.	
110) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

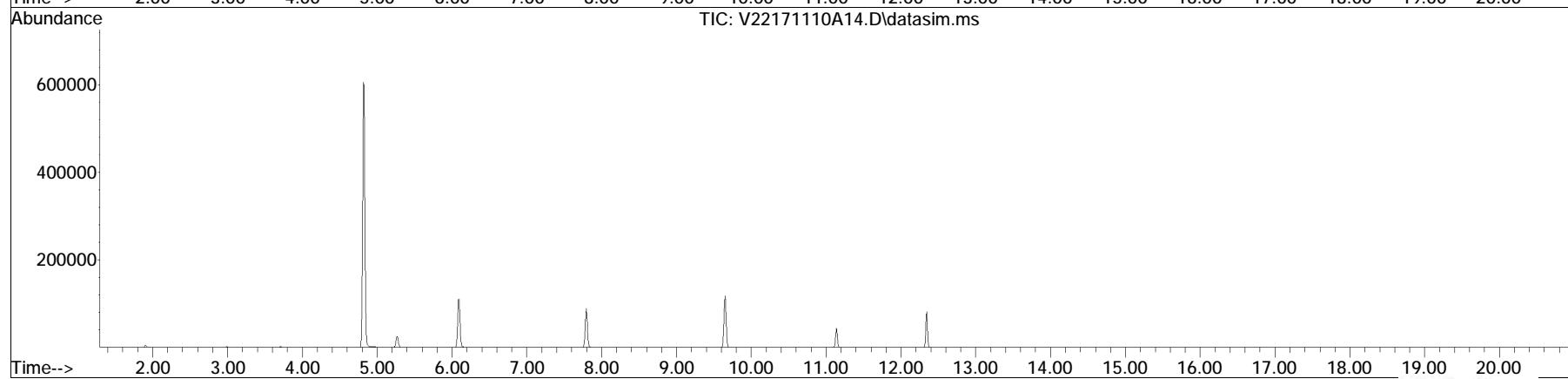
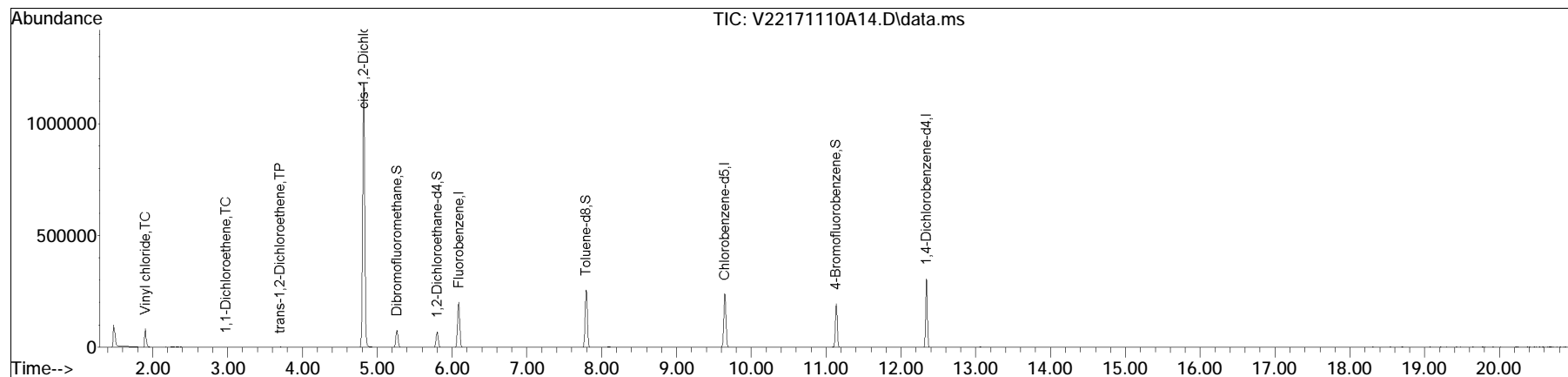
(#) = qualifier out of range (m) = manual integration (+) = signals summed

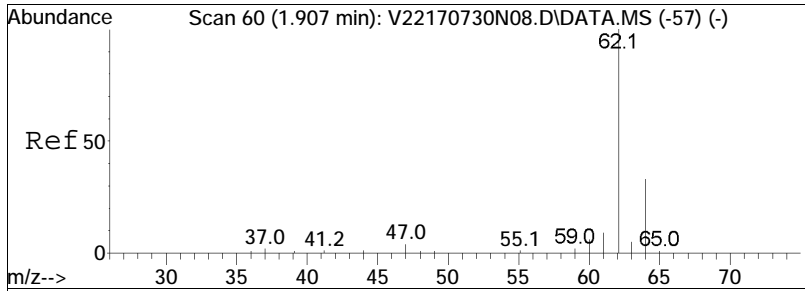
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
Data File : V22171110A14.D
Acq On : 10 Nov 2017 02:18 pm
Operator : VOA122:MKS
Sample : 11740596-01D,31,0.2,10,,a
Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 10 14:41:58 2017
Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

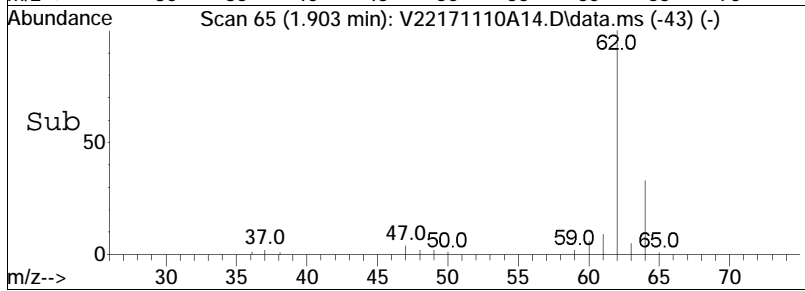
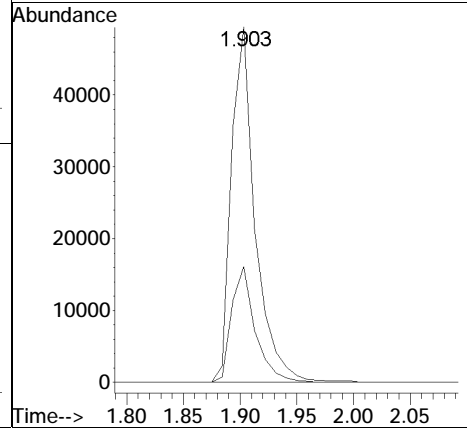
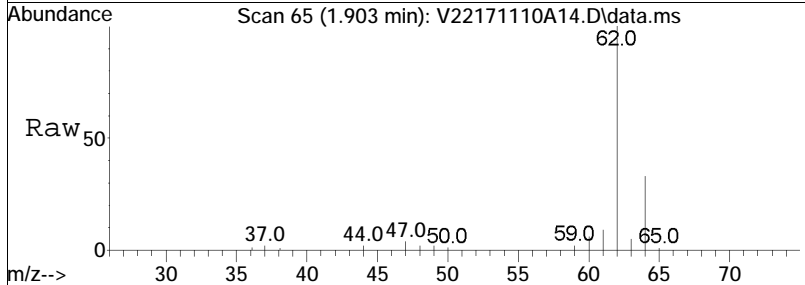
Sub List : 8260-Curve - Megamix plus Diox71110A\V22171110A02.D•

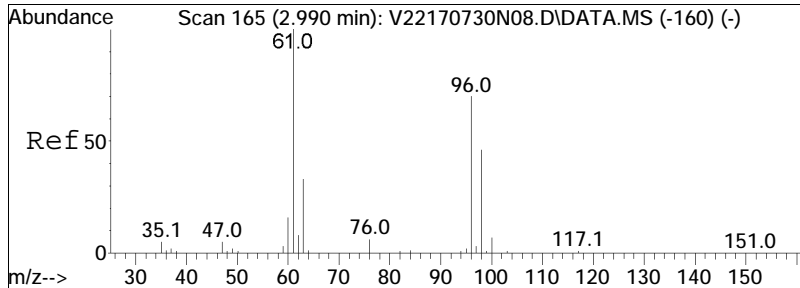




#4
 Vinyl chloride
 Concen: 12.81 ug/L
 RT: 1.903 min Scan# 65
 Delta R.T. 0.007 min
 Lab File: V22171110A14.D
 Acq: 10 Nov 2017 02:18 pm

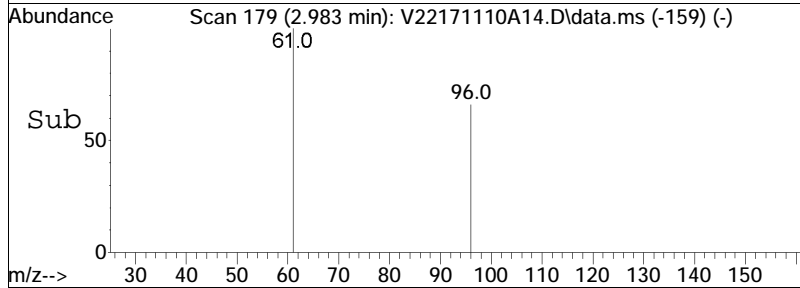
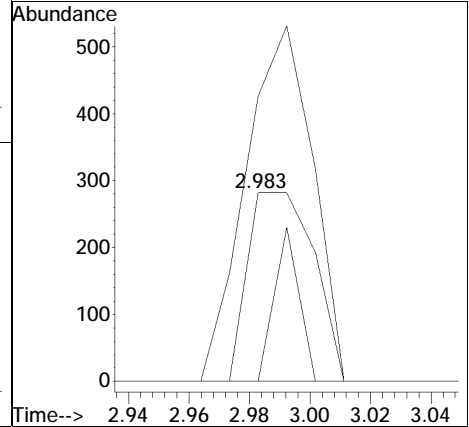
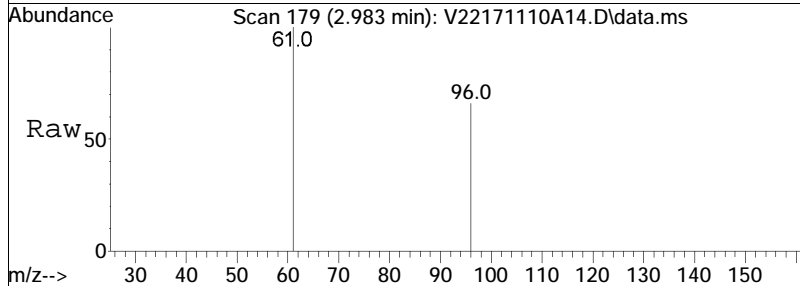
Tgt Ion: 62 Resp: 72122
 Ion Ratio Lower Upper
 62 100
 64 32.4 12.0 52.0

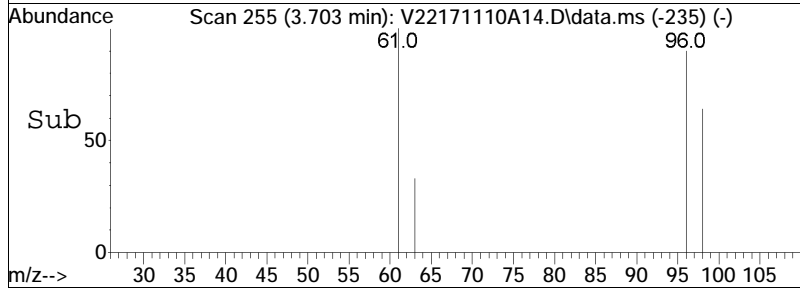
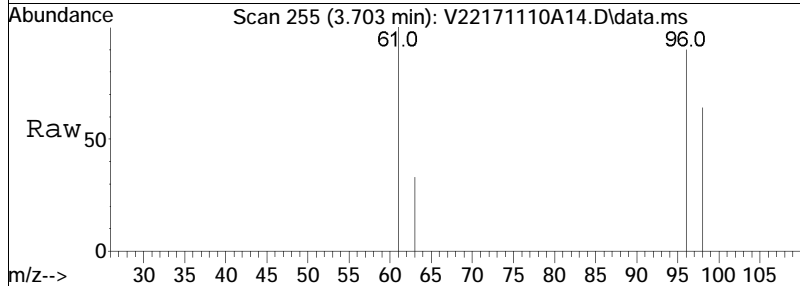
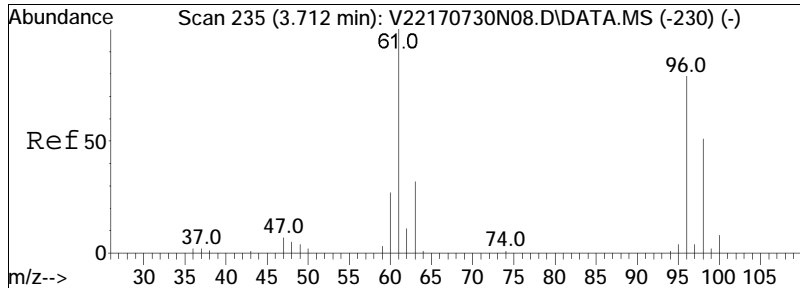




#10
 1,1-Dichloroethene
 Concen: 0.09 ug/L
 RT: 2.983 min Scan# 179
 Delta R.T. -0.007 min
 Lab File: V22171110A14.D
 Acq: 10 Nov 2017 02:18 pm

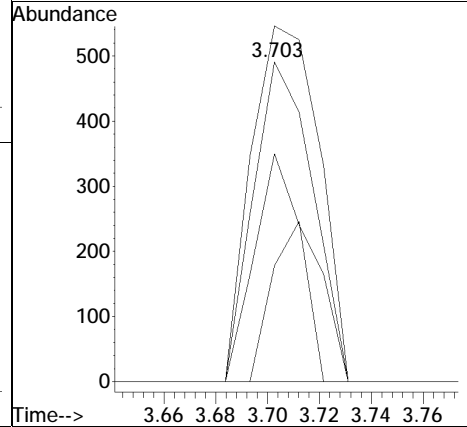
Tgt Ion	Resp	Lower	Upper
96	100		
61	189.8	117.0	175.4#
63	30.5	37.8	56.6#

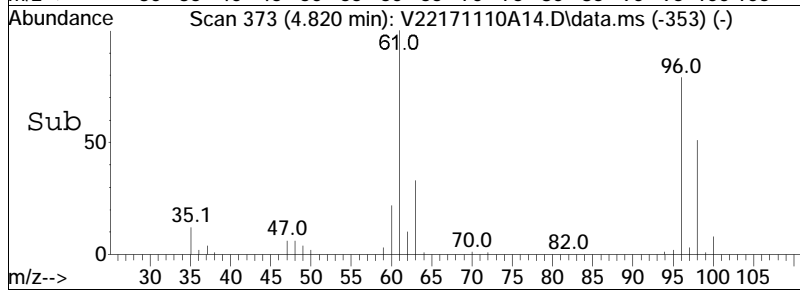
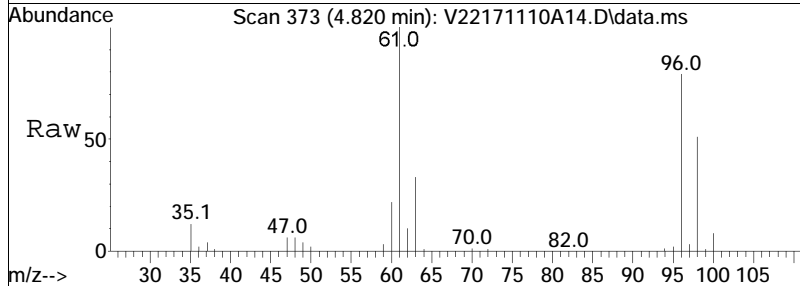
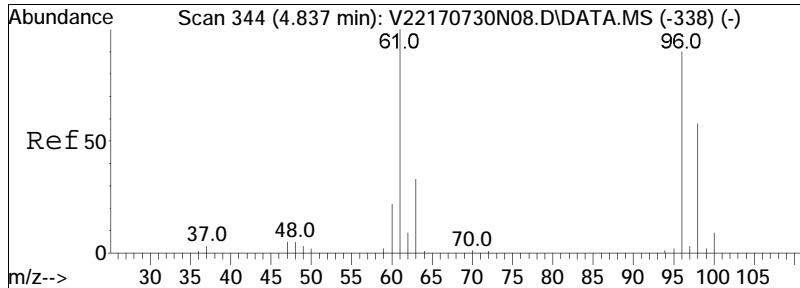




#18
 trans-1,2-Dichloroethene
 Concen: 0.14 ug/L
 RT: 3.703 min Scan# 255
 Delta R.T. -0.009 min
 Lab File: V22171110A14.D
 Acq: 10 Nov 2017 02:18 pm

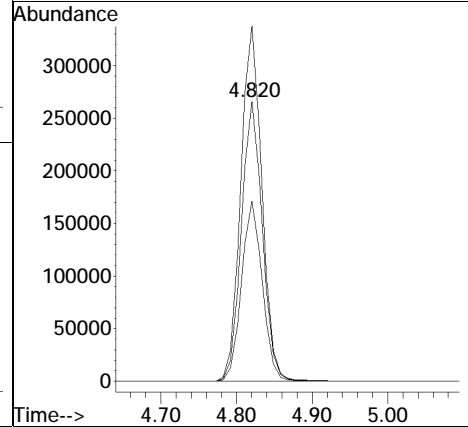
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
96	100		
61	127.4	81.6	169.6
98	67.1	41.8	86.8
63	30.9	26.3	54.7





#30
 cis-1,2-Dichloroethene
 Concen: 86.54 ug/L
 RT: 4.820 min Scan# 373
 Delta R.T. -0.007 min
 Lab File: V22171110A14.D
 Acq: 10 Nov 2017 02:18 pm

Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
96	100		
61	128.2	90.3	135.5
98	64.2	50.8	76.2



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22171110A14.D Operator : VOA122:MKS
Date Inj'd : 11/10/2017 2:18 pm Instrument : VOA122
Sample : 11740596-01D,31,0.2,10,,a Quant Date : 11/10/2017 2:41 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A15.D
 Acq On : 10 Nov 2017 02:45 pm
 Operator : VOA122:MKS
 Sample : 11740596-03D,31,0.5,10,,a
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 10 17:24:41 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.091	96	199280	10.000	ug/L	0.00	
Standard Area 1 = 209053			Recovery =	95.33%			
62) Chlorobenzene-d5	9.646	117	159007	10.000	ug/L	-0.01	
Standard Area 1 = 165135			Recovery =	96.29%			
83) 1,4-Dichlorobenzene-d4	12.341	152	76196	10.000	ug/L	0.00	
Standard Area 1 = 86857			Recovery =	87.73%			
System Monitoring Compounds							
38) Dibromofluoromethane	5.265	113	48995	9.513	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.13%			
46) 1,2-Dichloroethane-d4	5.802	65	51799	10.866	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.66%			
63) Toluene-d8	7.790	98	201050	10.518	ug/L	-0.02	
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.18%			
87) 4-Bromofluorobenzene	11.133	95	71296	10.831	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.31%			
Target Compounds							
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	0.000		0		N.D. d		
4) Vinyl chloride	1.903	62	130620	22.952	ug/L	99	
5) Bromomethane	0.000		0		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	2.983	96	366	0.076	ug/L #	65	
11) Carbon disulfide	3.021	76	240		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	0.000		0		N.D.		
17) Acetone	0.000		0		N.D.		
18) trans-1,2-Dichloroethene	3.703	96	942	0.169	ug/L	82	
19) Methyl acetate	0.000		0		N.D.		
21) Methyl tert-butyl ether	0.000		0		N.D.		
25) 1,1-Dichloroethane	0.000		0		N.D.		
30) cis-1,2-Dichloroethene	4.820	96	445739	74.328	ug/L	90	
32) Bromochloromethane	0.000		0		N.D.		
33) Cyclohexane	0.000		0		N.D.		
34) Chloroform	0.000		0		N.D.		
36) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A15.D
 Acq On : 10 Nov 2017 02:45 pm
 Operator : VOA122:MKS
 Sample : 11740596-03D,31,0.5,10,,a
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 10 17:24:41 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	0.000		0		N.D.	
44) Benzene	0.000		0		N.D.	
47) 1,2-Dichloroethane	0.000		0		N.D.	
50) Methyl cyclohexane	0.000		0		N.D.	
51) Trichloroethene	0.000		0		N.D.	
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	0.000		0		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	0.000		0		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	9.656	91	87		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104) 1,3-Dichlorobenzene	0.000		0		N.D.	
105) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) 1,2-Dichlorobenzene	0.000		0		N.D.	
110) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

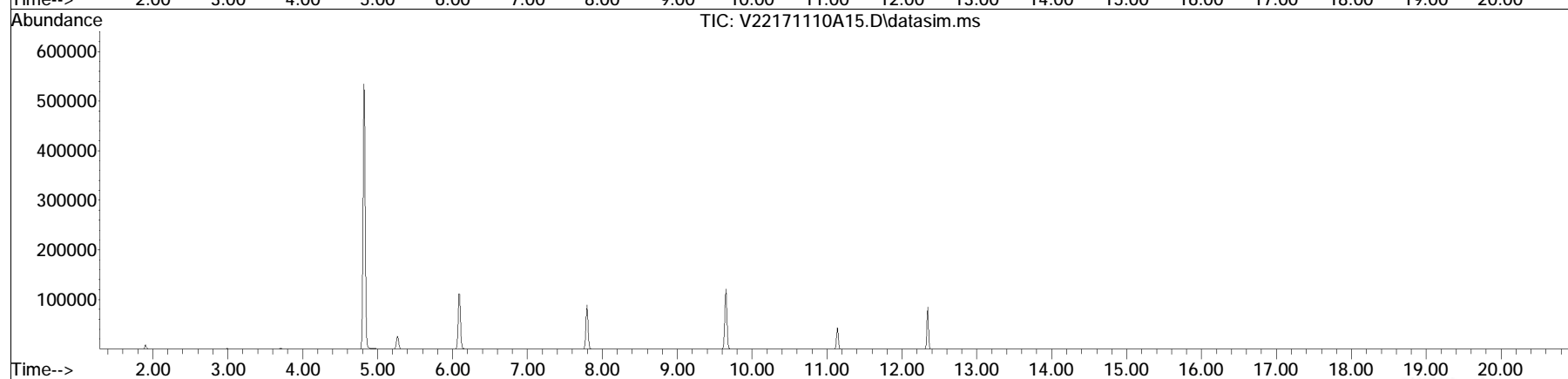
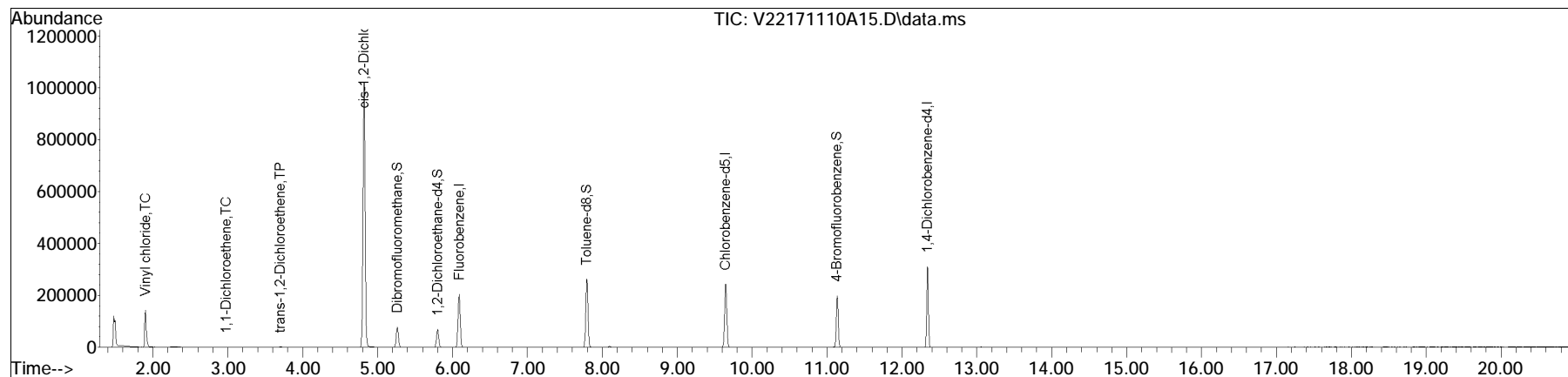
(#) = qualifier out of range (m) = manual integration (+) = signals summed

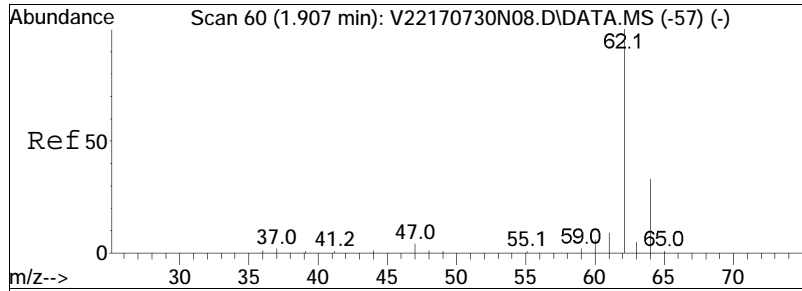
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A15.D
 Acq On : 10 Nov 2017 02:45 pm
 Operator : VOA122:MKS
 Sample : 11740596-03D,31,0.5,10,,a
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 10 17:24:41 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

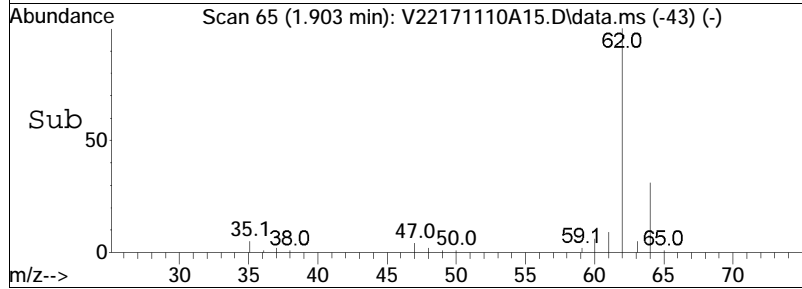
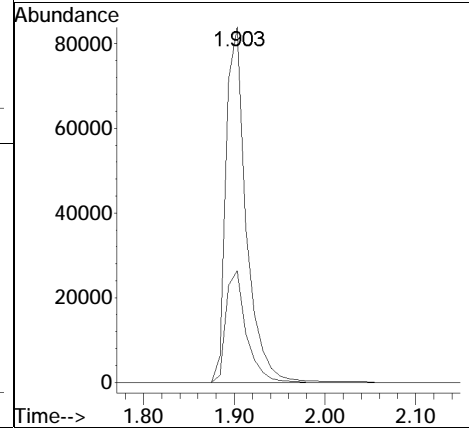
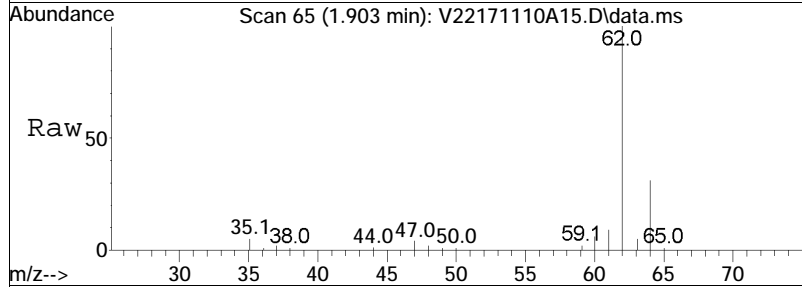
Sub List : 8260-Curve - Megamix plus Diox71110A\V22171110A02.D•

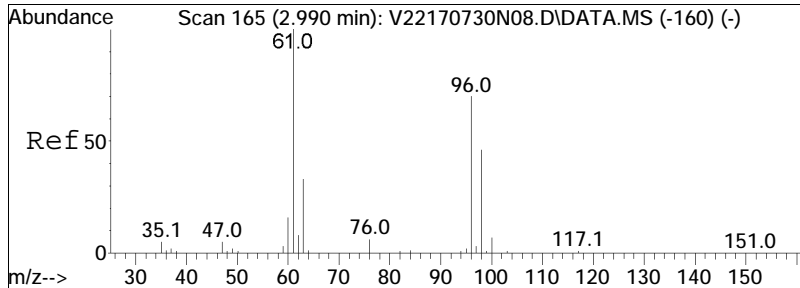




#4
 Vinyl chloride
 Concen: 22.95 ug/L
 RT: 1.903 min Scan# 65
 Delta R.T. 0.007 min
 Lab File: V22171110A15.D
 Acq: 10 Nov 2017 02:45 pm

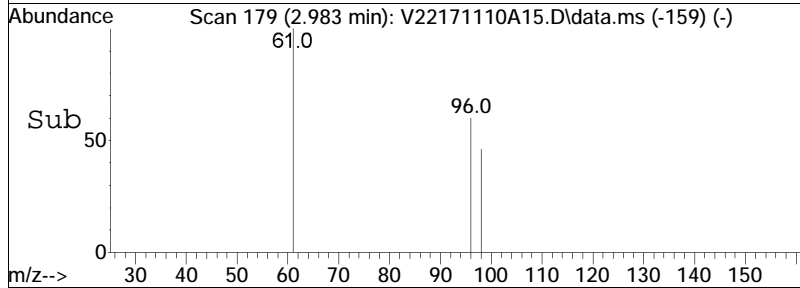
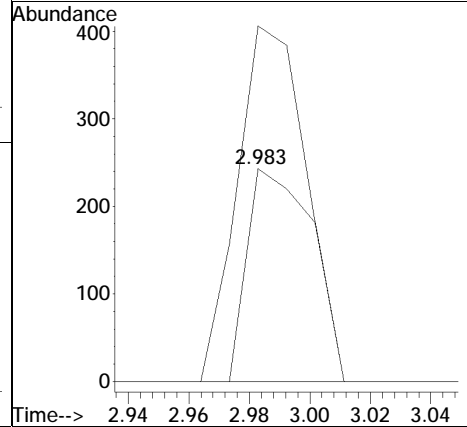
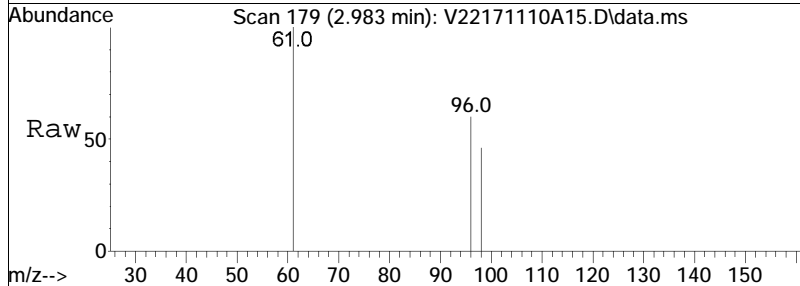
Tgt Ion: 62 Resp: 130620
 Ion Ratio Lower Upper
 62 100
 64 31.4 12.0 52.0

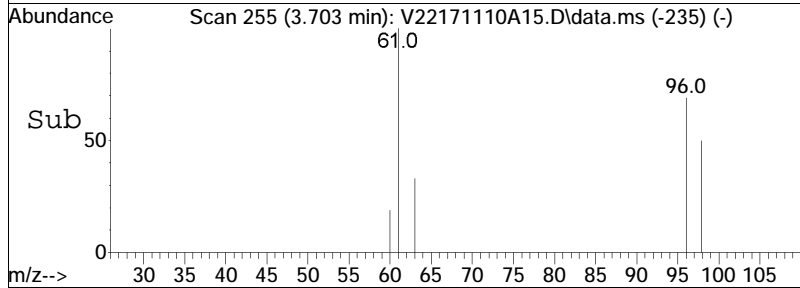
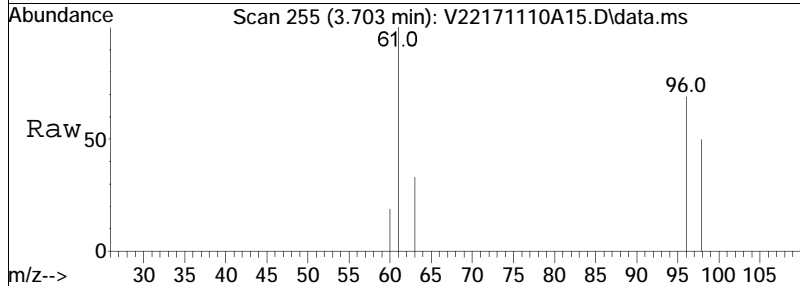
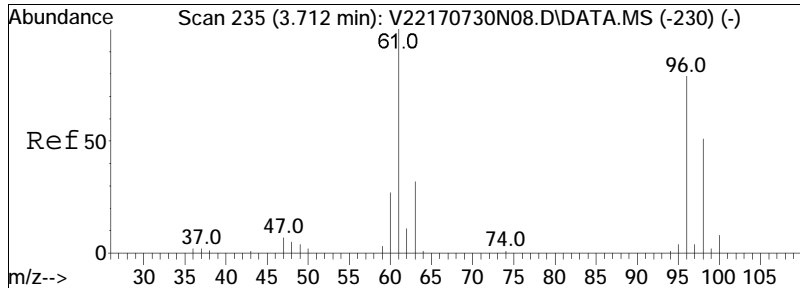




#10
 1,1-Dichloroethene
 Concen: 0.08 ug/L
 RT: 2.983 min Scan# 179
 Delta R.T. -0.007 min
 Lab File: V22171110A15.D
 Acq: 10 Nov 2017 02:45 pm

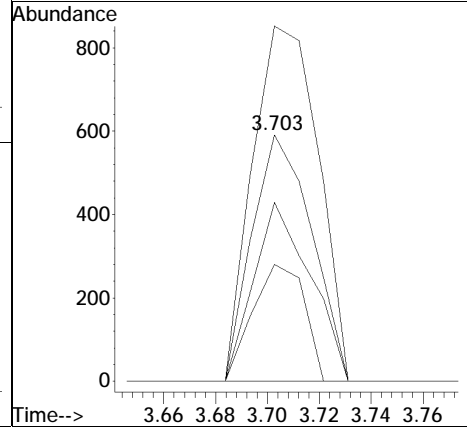
Tgt Ion	Resp	Lower	Upper
96	100		
61	174.9	117.0	175.4
63	0.0	37.8	56.6#

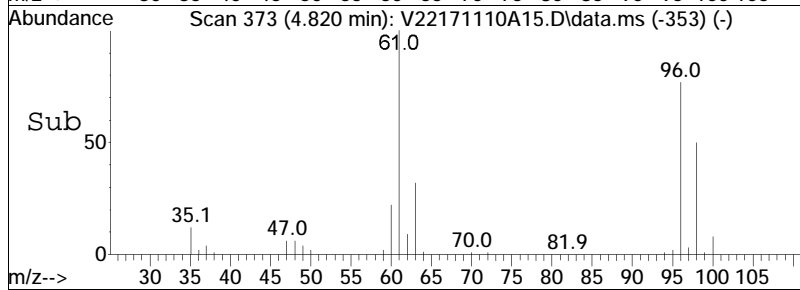
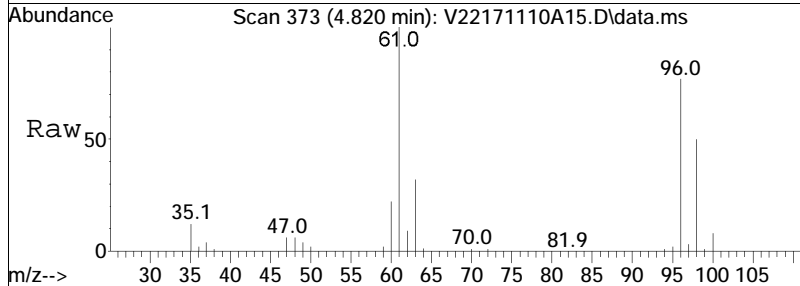
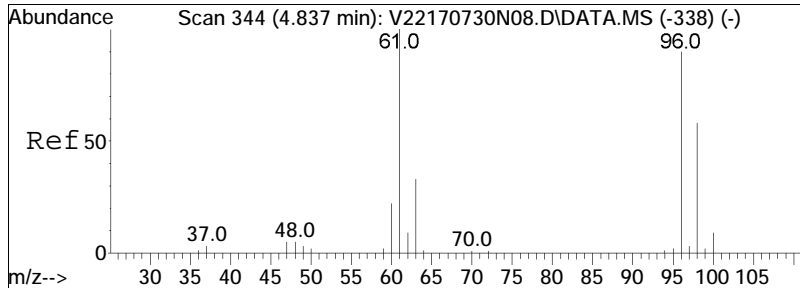




#18
 trans-1,2-Dichloroethene
 Concen: 0.17 ug/L
 RT: 3.703 min Scan# 255
 Delta R.T. -0.009 min
 Lab File: V22171110A15.D
 Acq: 10 Nov 2017 02:45 pm

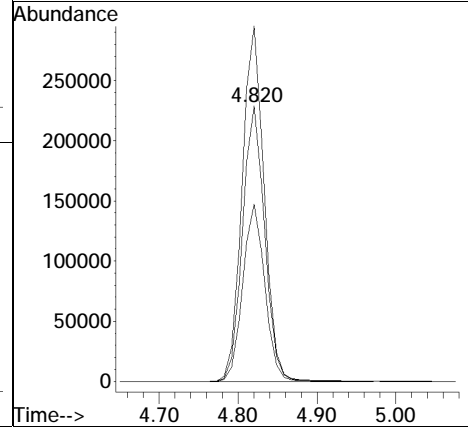
Tgt Ion:	96	Resp:	942
Ion Ratio	Lower	Upper	
96	100		
61	159.2	81.6	169.6
98	68.7	41.8	86.8
63	41.2	26.3	54.7





#30
 cis-1,2-Dichloroethene
 Concen: 74.33 ug/L
 RT: 4.820 min Scan# 373
 Delta R.T. -0.007 min
 Lab File: V22171110A15.D
 Acq: 10 Nov 2017 02:45 pm

Tgt Ion:	Resp:	Lower	Upper
96	445739		
96	100		
61	128.8	90.3	135.5
98	64.3	50.8	76.2



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22171110A15.D Operator : VOA122:MKS
Date Inj'd : 11/10/2017 2:45 pm Instrument : VOA122
Sample : 11740596-03D,31,0.5,10,,a Quant Date : 11/10/2017 5:22 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A16.D
 Acq On : 10 Nov 2017 03:13 pm
 Operator : VOA122:MKS
 Sample : 11740596-02,31,10,10,,a
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 10 17:25:59 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.091	96	201806	10.000	ug/L	0.00	
Standard Area 1 = 209053			Recovery =	96.53%			
62) Chlorobenzene-d5	9.646	117	159980	10.000	ug/L	-0.01	
Standard Area 1 = 165135			Recovery =	96.88%			
83) 1,4-Dichlorobenzene-d4	12.341	152	78140	10.000	ug/L	0.00	
Standard Area 1 = 86857			Recovery =	89.96%			
System Monitoring Compounds							
38) Dibromofluoromethane	5.265	113	49984	9.584	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.84%			
46) 1,2-Dichloroethane-d4	5.802	65	53649	11.113	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	111.13%			
63) Toluene-d8	7.790	98	205605	10.691	ug/L	-0.02	
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.91%			
87) 4-Bromofluorobenzene	11.133	95	71973	10.662	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.62%			
Target Compounds							
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	0.000		0		N.D. d		
4) Vinyl chloride	1.903	62	59916	10.397	ug/L	98	
5) Bromomethane	0.000		0		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	2.992	96	411	0.084	ug/L #	74	
11) Carbon disulfide	3.011	76	471		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	0.000		0		N.D.		
17) Acetone	0.000		0		N.D.		
18) trans-1,2-Dichloroethene	3.712	96	842	0.149	ug/L #	86	
19) Methyl acetate	0.000		0		N.D.		
21) Methyl tert-butyl ether	0.000		0		N.D.		
25) 1,1-Dichloroethane	0.000		0		N.D.		
30) cis-1,2-Dichloroethene	4.820	96	269124	44.315	ug/L	91	
32) Bromochloromethane	0.000		0		N.D.		
33) Cyclohexane	0.000		0		N.D.		
34) Chloroform	0.000		0		N.D.		
36) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A16.D
 Acq On : 10 Nov 2017 03:13 pm
 Operator : VOA122:MKS
 Sample : 11740596-02,31,10,10,,a
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 10 17:25:59 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	0.000		0		N.D.	
44) Benzene	5.668	78	93		N.D.	
47) 1,2-Dichloroethane	0.000		0		N.D.	
50) Methyl cyclohexane	0.000		0		N.D.	
51) Trichloroethene	6.266	95	786	0.139	ug/L	94
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	0.000		0		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	0.000		0		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	0.000		0		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104) 1,3-Dichlorobenzene	0.000		0		N.D.	
105) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) 1,2-Dichlorobenzene	0.000		0		N.D.	
110) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

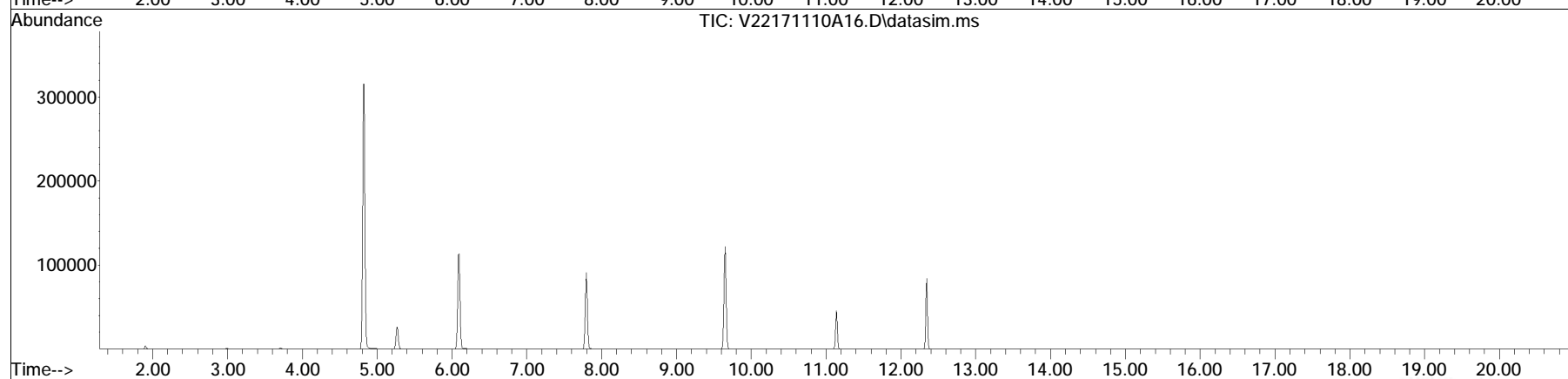
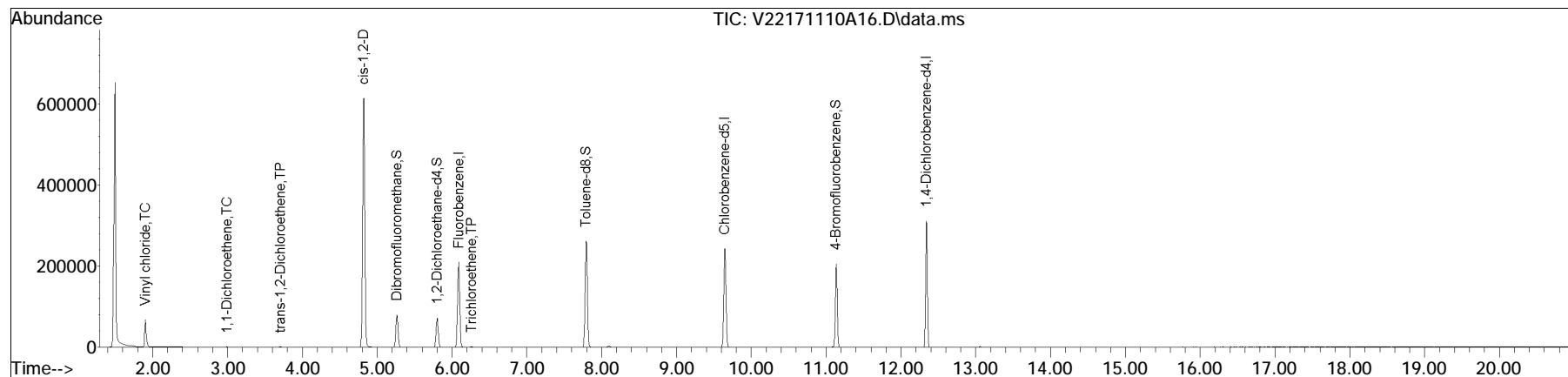
(#) = qualifier out of range (m) = manual integration (+) = signals summed

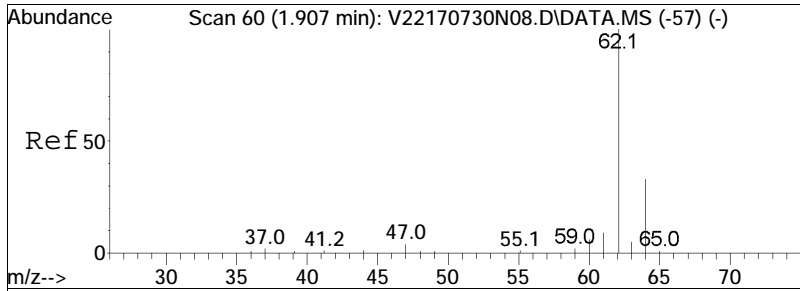
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
Data File : V22171110A16.D
Acq On : 10 Nov 2017 03:13 pm
Operator : VOA122:MKS
Sample : 11740596-02,31,10,10,,a
Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 10 17:25:59 2017
Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

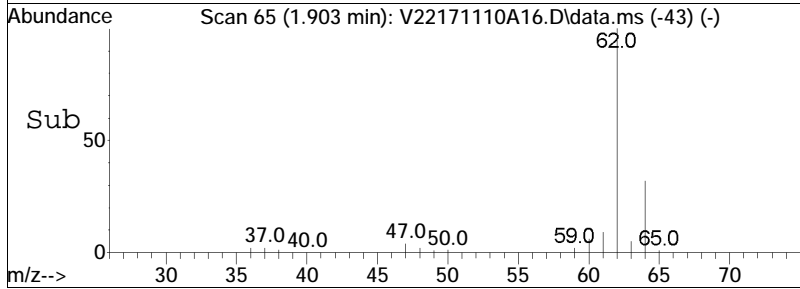
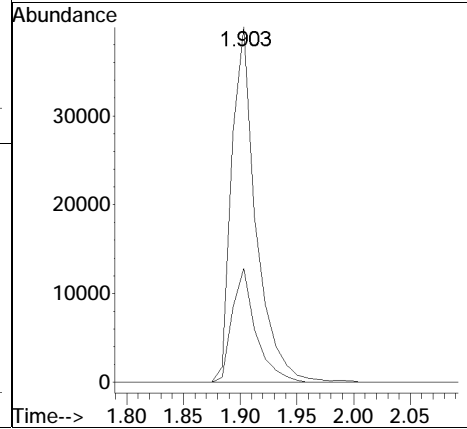
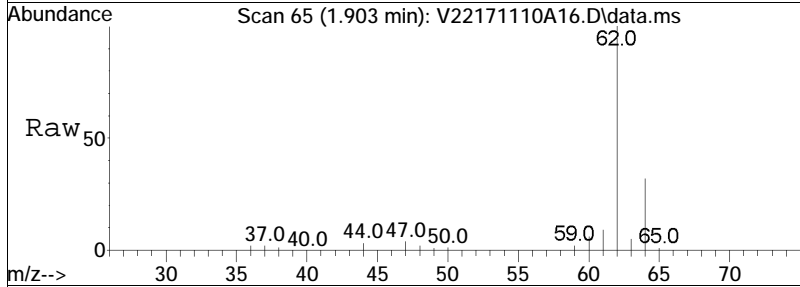
Sub List : 8260-Curve - Megamix plus Diox71110A\V22171110A02.D•

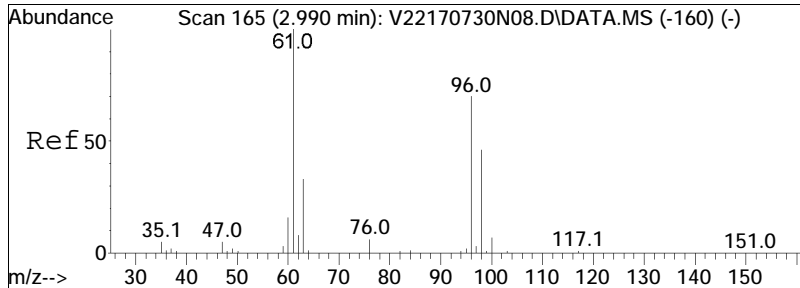




#4
 Vinyl chloride
 Concen: 10.40 ug/L
 RT: 1.903 min Scan# 65
 Delta R.T. 0.007 min
 Lab File: V22171110A16.D
 Acq: 10 Nov 2017 03:13 pm

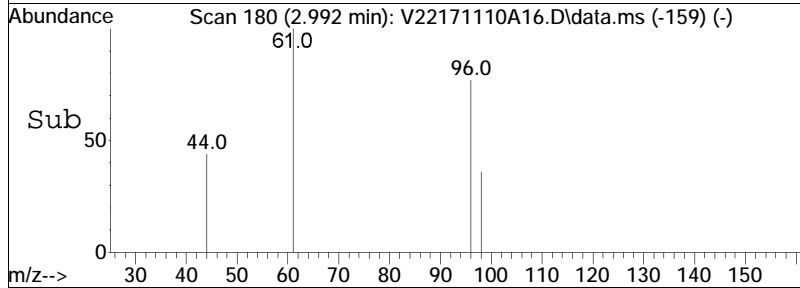
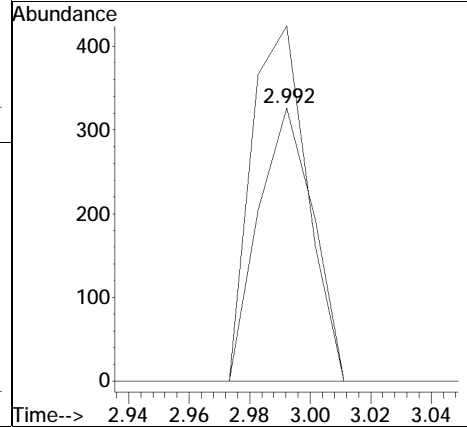
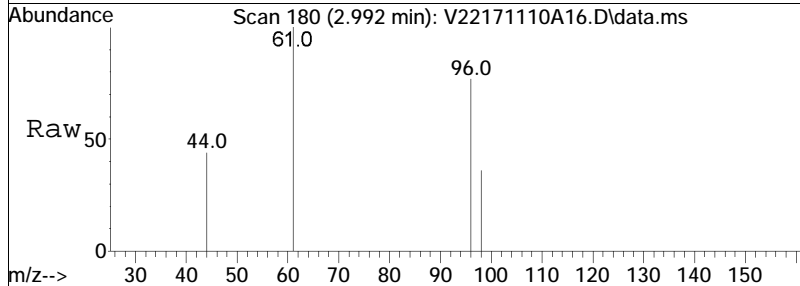
Tgt Ion: 62 Resp: 59916
 Ion Ratio Lower Upper
 62 100
 64 31.1 12.0 52.0

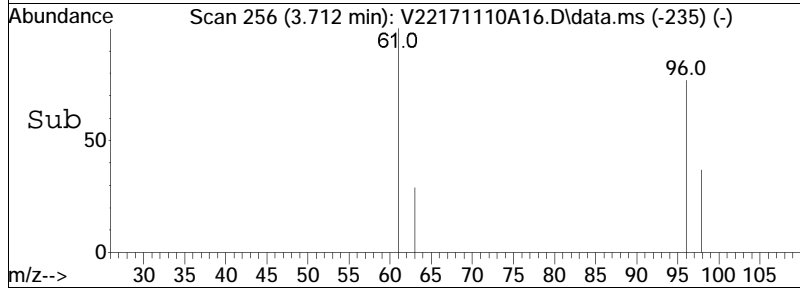
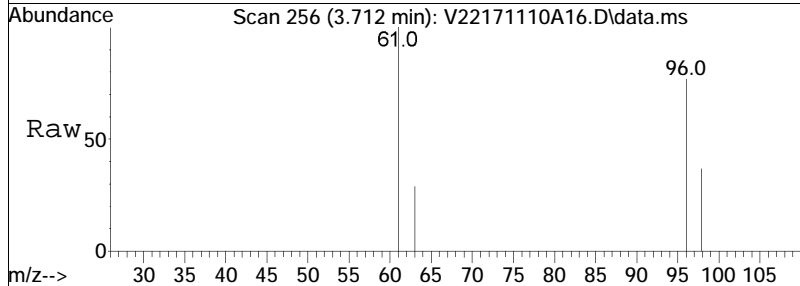
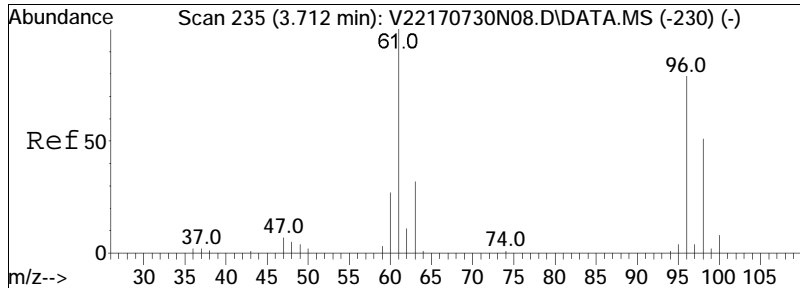




#10
 1,1-Dichloroethene
 Concen: 0.08 ug/L
 RT: 2.992 min Scan# 180
 Delta R.T. 0.002 min
 Lab File: V22171110A16.D
 Acq: 10 Nov 2017 03:13 pm

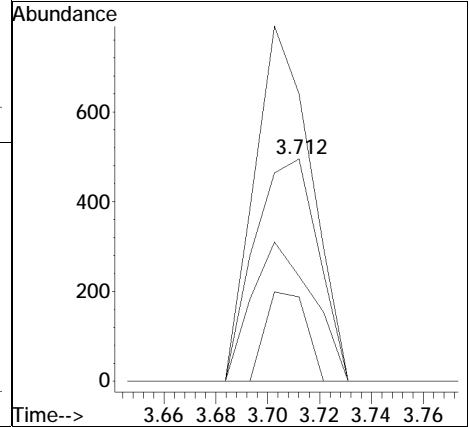
Tgt Ion	Resp	Lower	Upper
96	100		
61	131.4	117.0	175.4
63	0.0	37.8	56.6#

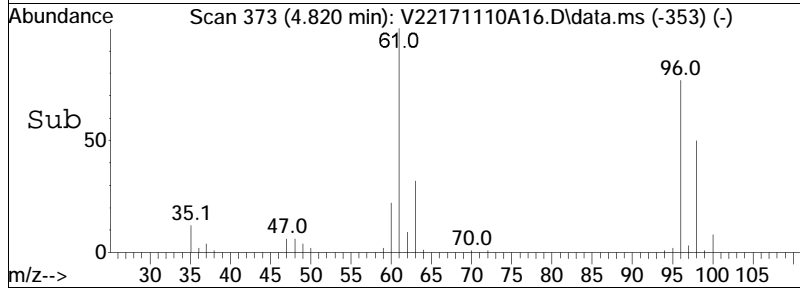
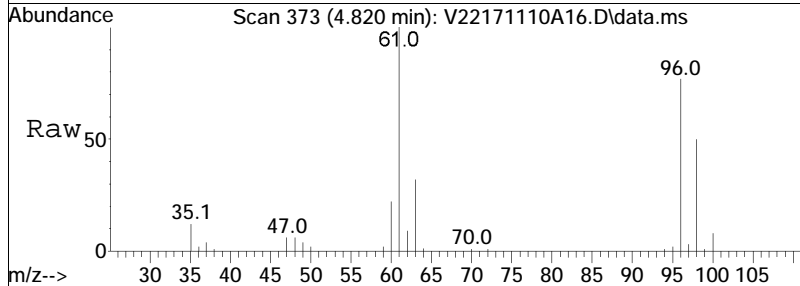
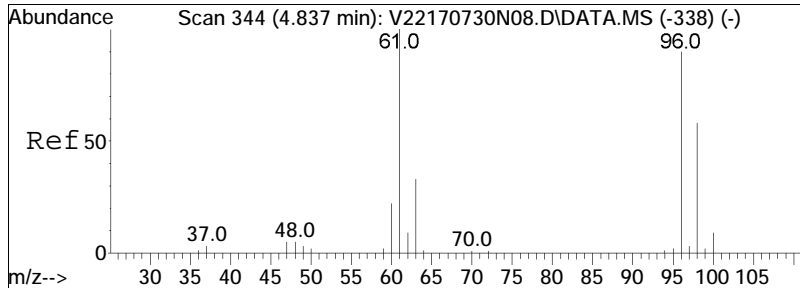




#18
 trans-1,2-Dichloroethene
 Concen: 0.15 ug/L
 RT: 3.712 min Scan# 256
 Delta R.T. 0.000 min
 Lab File: V22171110A16.D
 Acq: 10 Nov 2017 03:13 pm

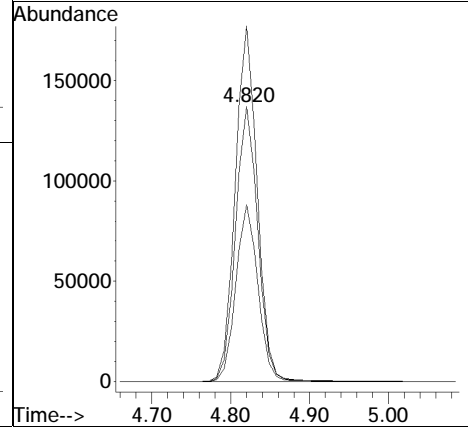
Tgt Ion	Resp	Lower	Upper
96	100		
61	142.6	81.6	169.6
98	59.5	41.8	86.8
63	26.1	26.3	54.7#

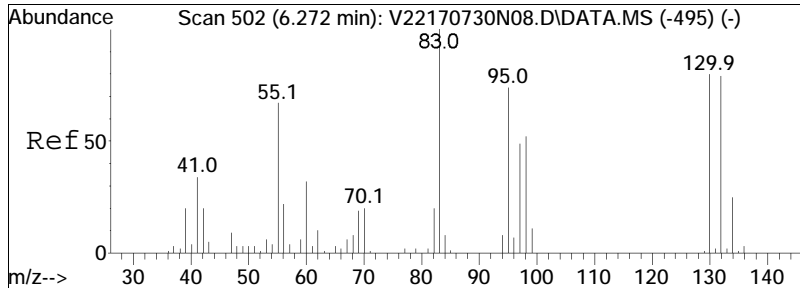




#30
 cis-1,2-Dichloroethene
 Concen: 44.32 ug/L
 RT: 4.820 min Scan# 373
 Delta R.T. -0.007 min
 Lab File: V22171110A16.D
 Acq: 10 Nov 2017 03:13 pm

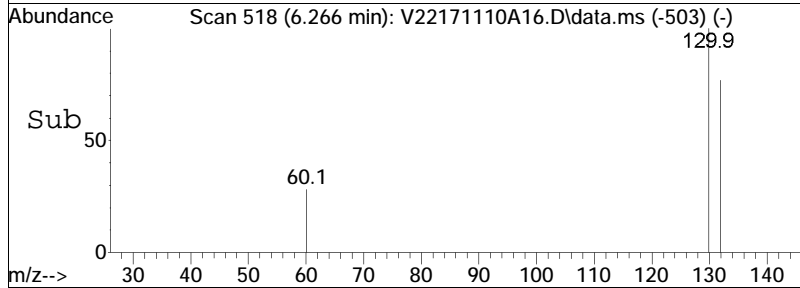
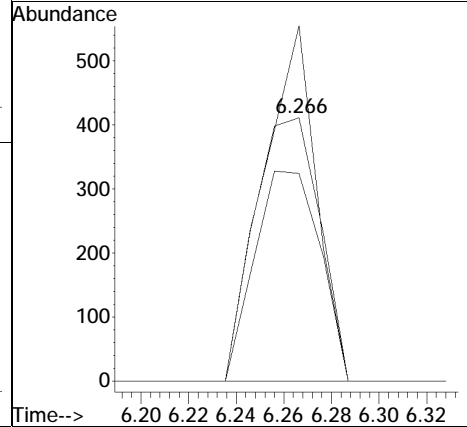
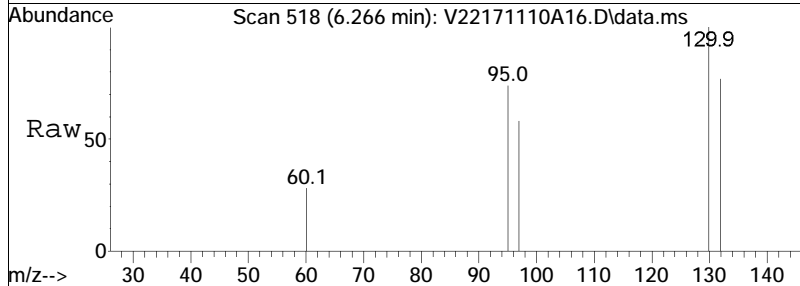
Tgt Ion:	Resp:	Lower	Upper
96	100		
61	127.8	90.3	135.5
98	63.6	50.8	76.2





#51
 Trichloroethene
 Concen: 0.14 ug/L
 RT: 6.266 min Scan# 518
 Delta R.T. -0.006 min
 Lab File: V22171110A16.D
 Acq: 10 Nov 2017 03:13 pm

Tgt Ion	Resp	Lower	Upper
95	100		
97	79.6	55.0	82.4
130	109.2	89.2	133.8



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22171110A16.D Operator : VOA122:MKS
Date Inj'd : 11/10/2017 3:13 pm Instrument : VOA122
Sample : 11740596-02,31,10,10,,a Quant Date : 11/10/2017 5:22 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A17.D
 Acq On : 10 Nov 2017 03:41 pm
 Operator : VOA122:MKS
 Sample : 11740596-04,31,10,10,,a
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 10 17:27:06 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.091	96	201843	10.000	ug/L	0.00	
Standard Area 1 = 209053			Recovery =	96.55%			
62) Chlorobenzene-d5	9.646	117	158306	10.000	ug/L	-0.01	
Standard Area 1 = 165135			Recovery =	95.86%			
83) 1,4-Dichlorobenzene-d4	12.341	152	77758	10.000	ug/L	0.00	
Standard Area 1 = 86857			Recovery =	89.52%			
System Monitoring Compounds							
38) Dibromofluoromethane	5.265	113	50215	9.626	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.26%			
46) 1,2-Dichloroethane-d4	5.802	65	53981	11.180	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	111.80%			
63) Toluene-d8	7.790	98	204359	10.739	ug/L	-0.02	
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.39%			
87) 4-Bromofluorobenzene	11.133	95	70988	10.568	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.68%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	1.837	50	199		N.D.		
4) Vinyl chloride	1.903	62	251		N.D.		
5) Bromomethane	0.000		0		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	3.011	76	336		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	0.000		0		N.D.		
17) Acetone	0.000		0		N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	0.000		0		N.D.	d	
21) Methyl tert-butyl ether	0.000		0		N.D.		
25) 1,1-Dichloroethane	0.000		0		N.D.		
30) cis-1,2-Dichloroethene	4.820	96	4091	0.674	ug/L		91
32) Bromochloromethane	0.000		0		N.D.		
33) Cyclohexane	0.000		0		N.D.		
34) Chloroform	0.000		0		N.D.		
36) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A17.D
 Acq On : 10 Nov 2017 03:41 pm
 Operator : VOA122:MKS
 Sample : 11740596-04,31,10,10,,a
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 10 17:27:06 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	0.000		0		N.D.	
44) Benzene	0.000		0		N.D.	
47) 1,2-Dichloroethane	0.000		0		N.D.	
50) Methyl cyclohexane	0.000		0		N.D.	
51) Trichloroethene	6.266	95	3461	0.614	ug/L	91
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	0.000		0		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	0.000		0		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	9.646	91	102		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104) 1,3-Dichlorobenzene	0.000		0		N.D.	
105) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) 1,2-Dichlorobenzene	0.000		0		N.D.	
110) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

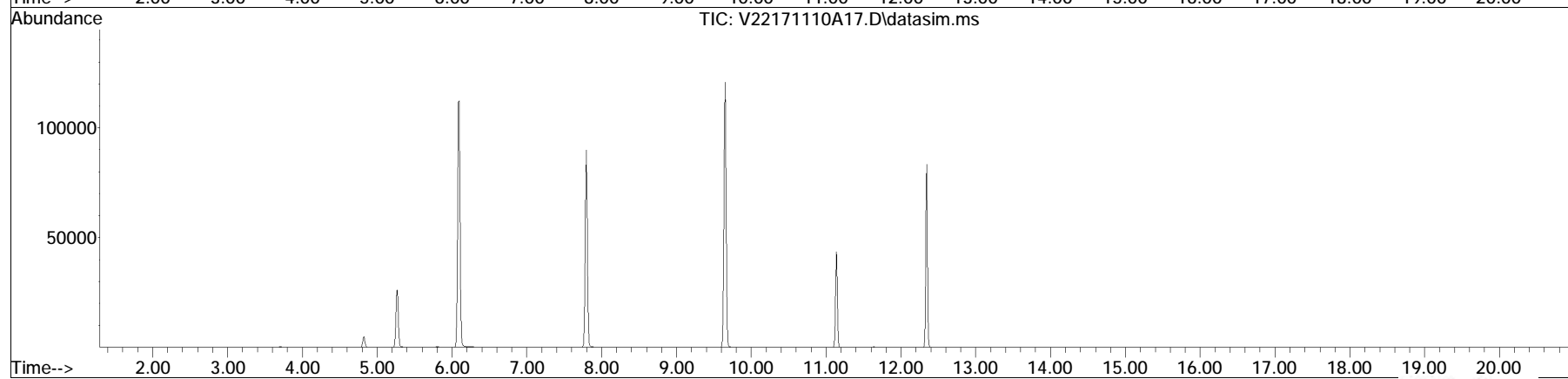
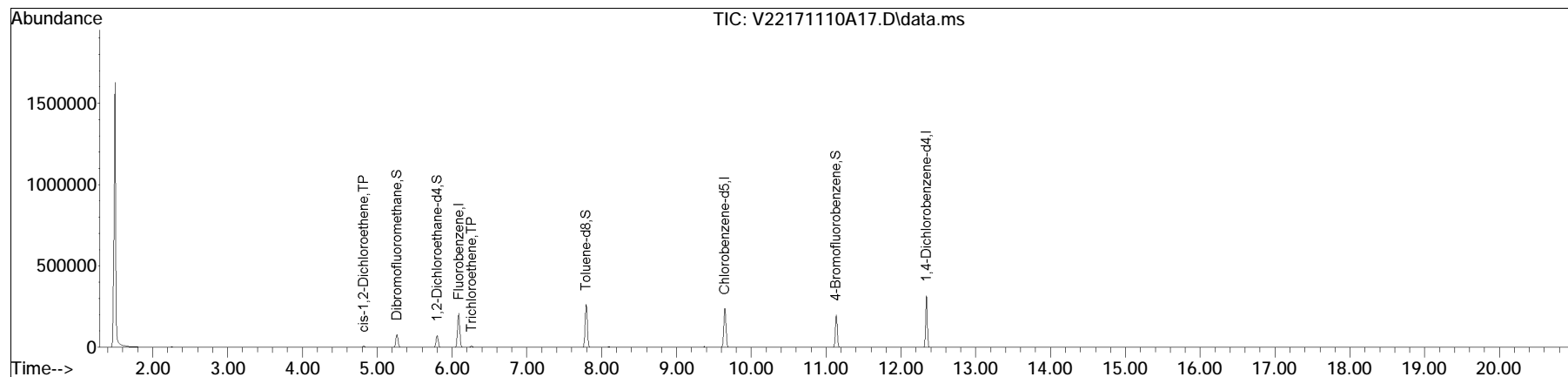
(#) = qualifier out of range (m) = manual integration (+) = signals summed

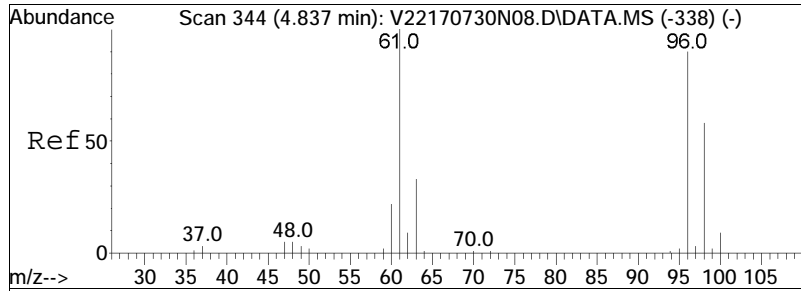
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
Data File : V22171110A17.D
Acq On : 10 Nov 2017 03:41 pm
Operator : VOA122:MKS
Sample : 11740596-04,31,10,10,,a
Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 10 17:27:06 2017
Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

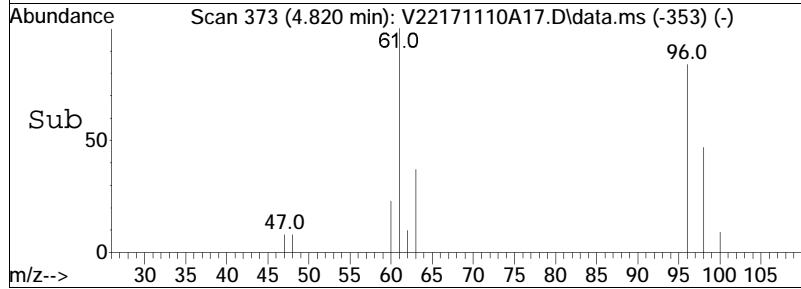
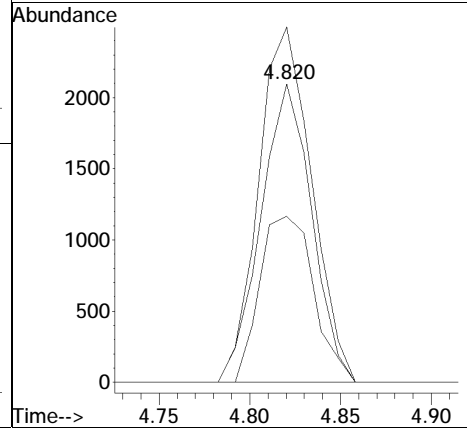
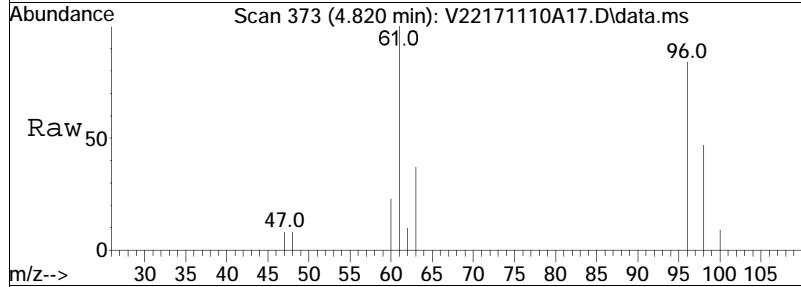
Sub List : 8260-Curve - Megamix plus Diox71110A\V22171110A02.D•

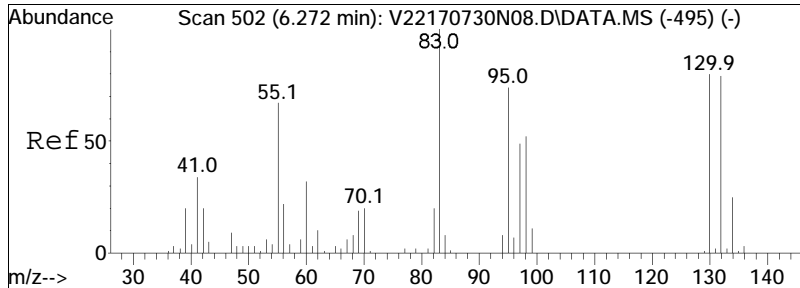




#30
 cis-1,2-Dichloroethene
 Concen: 0.67 ug/L
 RT: 4.820 min Scan# 373
 Delta R.T. -0.007 min
 Lab File: V22171110A17.D
 Acq: 10 Nov 2017 03:41 pm

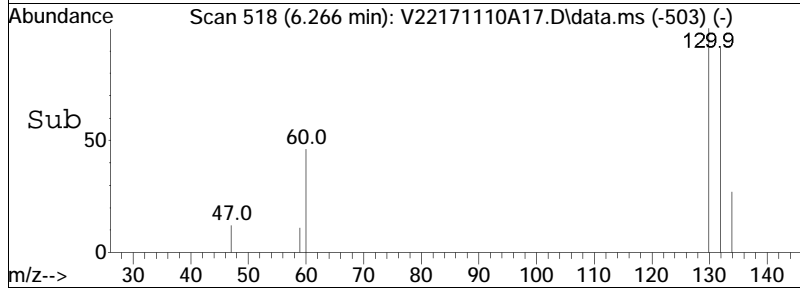
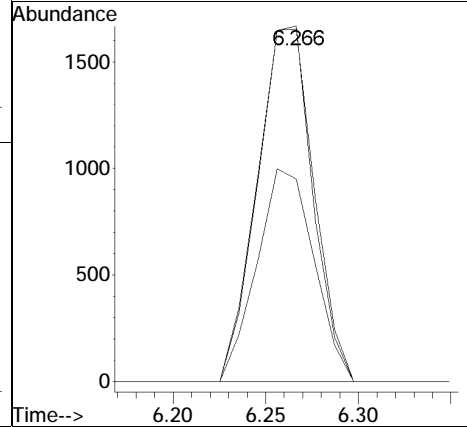
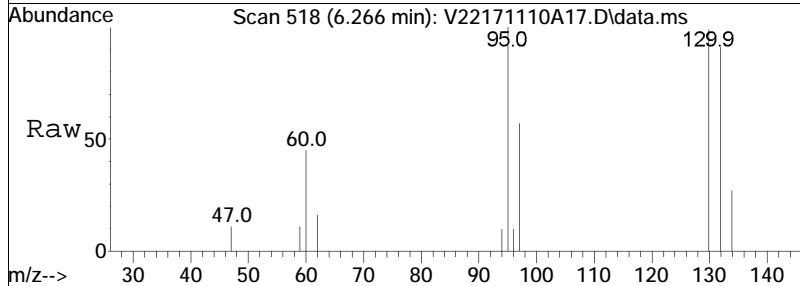
Tgt Ion	Ratio	Lower	Upper
96	100		
61	124.3	90.3	135.5
98	59.1	50.8	76.2





#51
 Trichloroethene
 Concen: 0.61 ug/L
 RT: 6.266 min Scan# 518
 Delta R.T. -0.006 min
 Lab File: V22171110A17.D
 Acq: 10 Nov 2017 03:41 pm

Tgt Ion:	95	Resp:	3461
Ion Ratio	Lower	Upper	
95	100		
97	61.8	55.0	82.4
130	101.4	89.2	133.8



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22171110A17.D Operator : VOA122:MKS
Date Inj'd : 11/10/2017 3:41 pm Instrument : VOA122
Sample : 11740596-04,31,10,10,,a Quant Date : 11/10/2017 5:22 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A18.D
 Acq On : 10 Nov 2017 04:08 pm
 Operator : VOA122:MKS
 Sample : 11740596-05,31,10,10,,a
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 10 17:28:02 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.091	96	198987	10.000	ug/L	0.00	
Standard Area 1 = 209053			Recovery =	95.18%			
62) Chlorobenzene-d5	9.646	117	156755	10.000	ug/L	-0.01	
Standard Area 1 = 165135			Recovery =	94.93%			
83) 1,4-Dichlorobenzene-d4	12.341	152	75951	10.000	ug/L	0.00	
Standard Area 1 = 86857			Recovery =	87.44%			
System Monitoring Compounds							
38) Dibromofluoromethane	5.265	113	49391	9.604	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.04%			
46) 1,2-Dichloroethane-d4	5.802	65	51662	10.853	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.53%			
63) Toluene-d8	7.790	98	201853	10.712	ug/L	-0.02	
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.12%			
87) 4-Bromofluorobenzene	11.133	95	70642	10.767	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.67%			
Target Compounds							
2) Dichlorodifluoromethane	0.000		0		N.D.		Qvalue
3) Chloromethane	1.827	50	784	0.173	ug/L		90
4) Vinyl chloride	1.903	62	7181	1.264	ug/L		95
5) Bromoethane	0.000		0		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	3.021	76	557		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	3.551	84	107		N.D.		
17) Acetone	0.000		0		N.D.	d	
18) trans-1,2-Dichloroethene	3.703	96	227		N.D.		
19) Methyl acetate	0.000		0		N.D.	d	
21) Methyl tert-butyl ether	0.000		0		N.D.		
25) 1,1-Dichloroethane	0.000		0		N.D.		
30) cis-1,2-Dichloroethene	4.820	96	26266	4.386	ug/L		91
32) Bromochloromethane	0.000		0		N.D.		
33) Cyclohexane	0.000		0		N.D.		
34) Chloroform	0.000		0		N.D.		
36) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A18.D
 Acq On : 10 Nov 2017 04:08 pm
 Operator : VOA122:MKS
 Sample : 11740596-05,31,10,10,,a
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 10 17:28:02 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	0.000		0		N.D.	
44) Benzene	5.679	78	340		N.D.	
47) 1,2-Dichloroethane	0.000		0		N.D.	
50) Methyl cyclohexane	0.000		0		N.D.	
51) Trichloroethene	0.000		0		N.D.	
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	0.000		0		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	0.000		0		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	0.000		0		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104) 1,3-Dichlorobenzene	0.000		0		N.D.	
105) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) 1,2-Dichlorobenzene	0.000		0		N.D.	
110) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

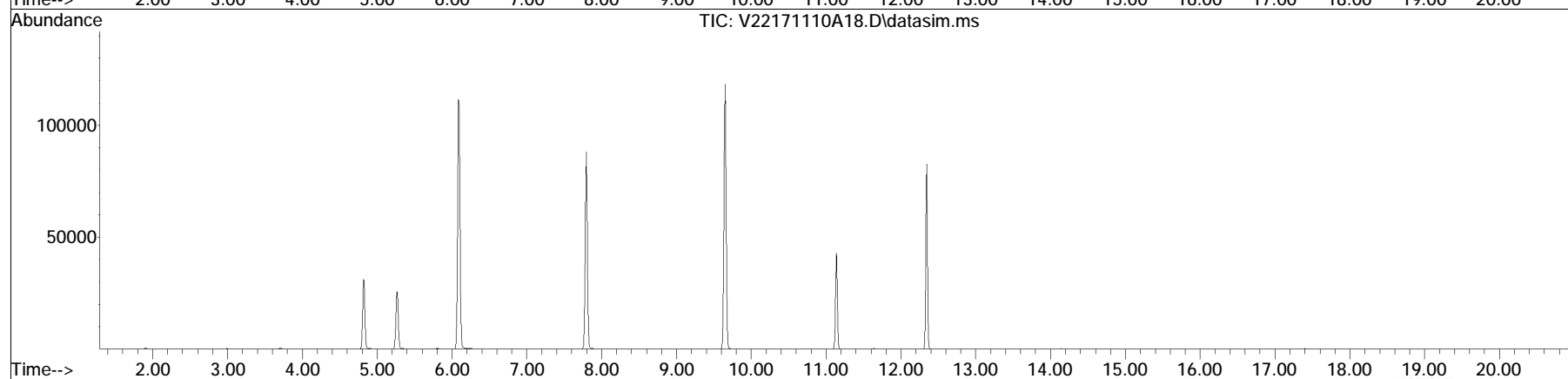
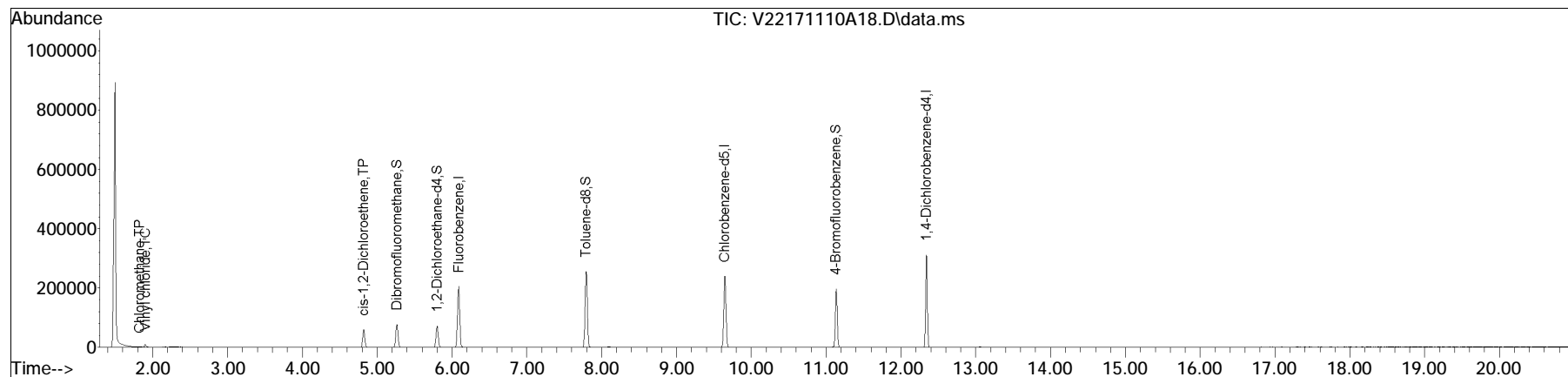
(#) = qualifier out of range (m) = manual integration (+) = signals summed

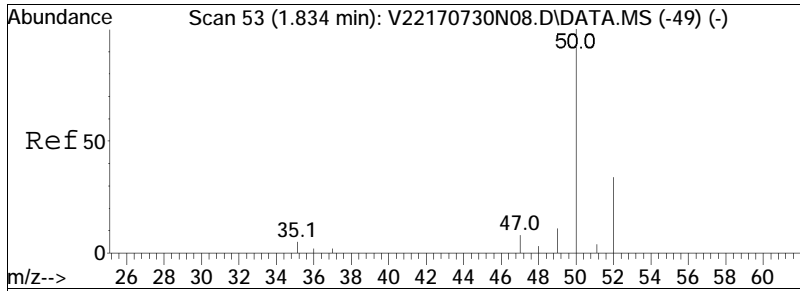
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
Data File : V22171110A18.D
Acq On : 10 Nov 2017 04:08 pm
Operator : VOA122:MKS
Sample : 11740596-05,31,10,10,,a
Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 10 17:28:02 2017
Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

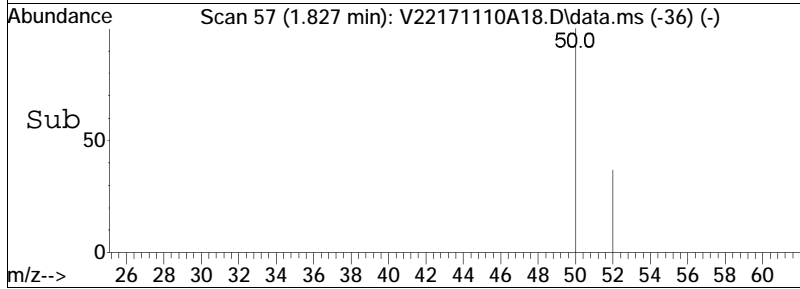
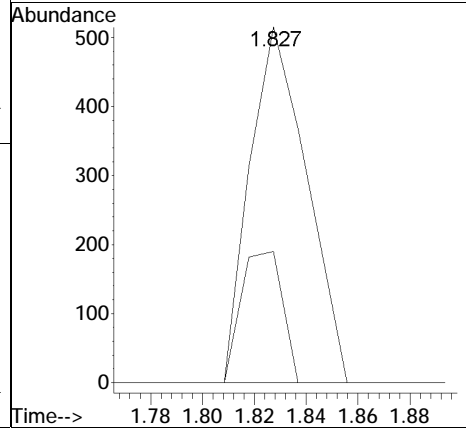
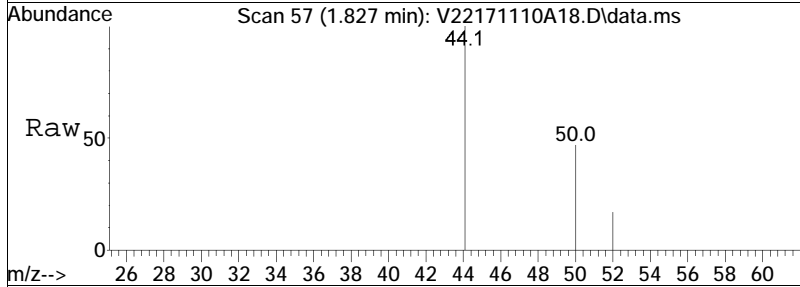
Sub List : 8260-Curve - Megamix plus Diox71110A\V22171110A02.D•

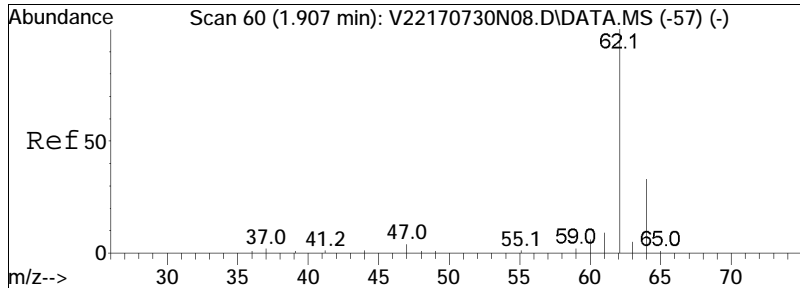




#3
 Chloromethane
 Concen: 0.17 ug/L
 RT: 1.827 min Scan# 57
 Delta R.T. 0.003 min
 Lab File: V22171110A18.D
 Acq: 10 Nov 2017 04:08 pm

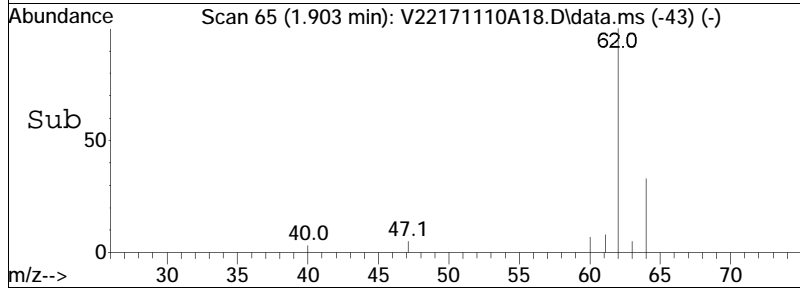
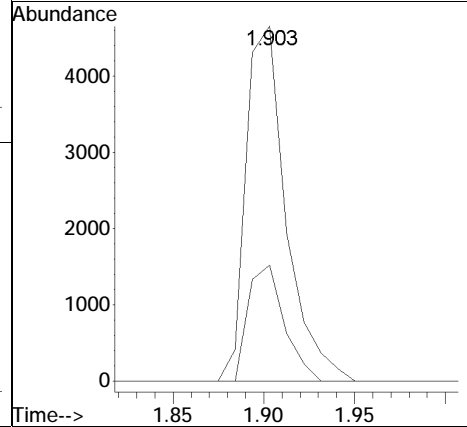
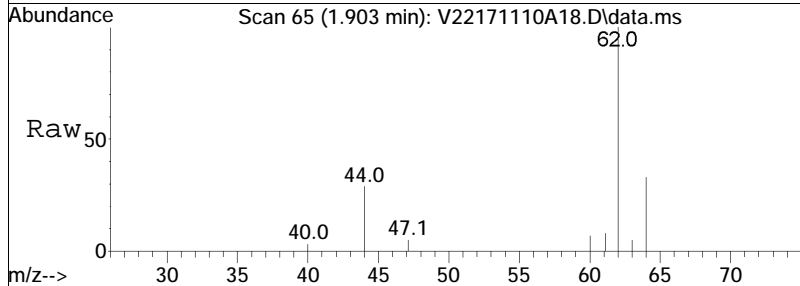
Tgt Ion:	50	Resp:	784
Ion Ratio	Lower	Upper	
50	100		
52	26.9	12.8	52.8

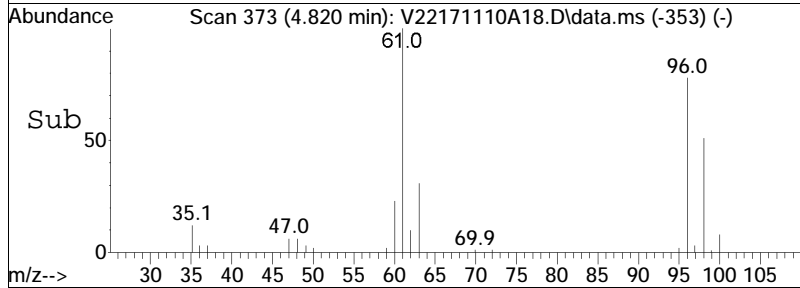
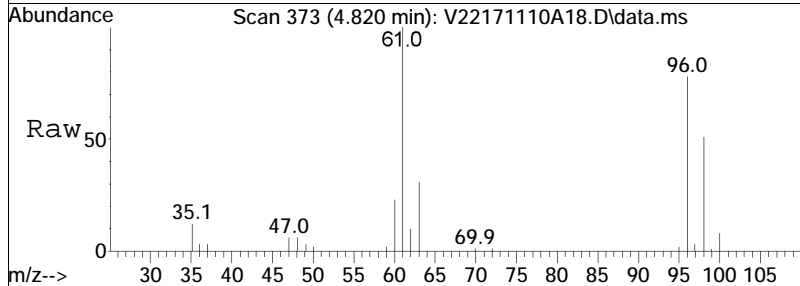
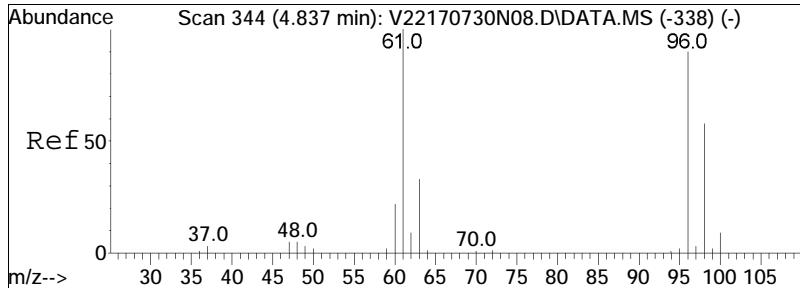




#4
 Vinyl chloride
 Concen: 1.26 ug/L
 RT: 1.903 min Scan# 65
 Delta R.T. 0.007 min
 Lab File: V22171110A18.D
 Acq: 10 Nov 2017 04:08 pm

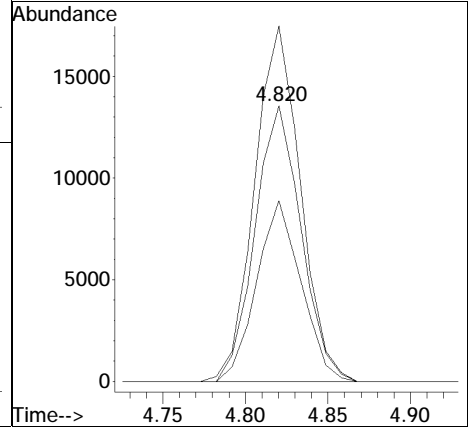
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
62	100		
64	29.5	12.0	52.0





#30
 cis-1,2-Dichloroethene
 Concen: 4.39 ug/L
 RT: 4.820 min Scan# 373
 Delta R.T. -0.007 min
 Lab File: V22171110A18.D
 Acq: 10 Nov 2017 04:08 pm

Tgt Ion	Resp	Lower	Upper
96	100		
61	128.3	90.3	135.5
98	63.3	50.8	76.2



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22171110A18.D Operator : VOA122:MKS
Date Inj'd : 11/10/2017 4:08 pm Instrument : VOA122
Sample : 11740596-05,31,10,10,,a Quant Date : 11/10/2017 5:22 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A19.D
 Acq On : 10 Nov 2017 04:36 pm
 Operator : VOA122:MKS
 Sample : 11740596-06,31,10,10,,a
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 10 17:23:06 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.091	96	198206	10.000	ug/L	0.00	
Standard Area 1 = 209053			Recovery =	94.81%			
62) Chlorobenzene-d5	9.646	117	156532	10.000	ug/L	-0.01	
Standard Area 1 = 165135			Recovery =	94.79%			
83) 1,4-Dichlorobenzene-d4	12.341	152	75597	10.000	ug/L	0.00	
Standard Area 1 = 86857			Recovery =	87.04%			
System Monitoring Compounds							
38) Dibromofluoromethane	5.265	113	49820	9.726	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.26%			
46) 1,2-Dichloroethane-d4	5.802	65	53174	11.215	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	112.15%			
63) Toluene-d8	7.790	98	200716	10.667	ug/L	-0.02	
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.67%			
87) 4-Bromofluorobenzene	11.133	95	70192	10.748	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.48%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.		
3) Chloromethane	0.000		0		N.D.		
4) Vinyl chloride	0.000		0		N.D.		
5) Bromomethane	0.000		0		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	3.011	76	292		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	3.542	84	571	0.111	ug/L		85
17) Acetone	0.000		0		N.D.		
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	0.000		0		N.D.		
21) Methyl tert-butyl ether	0.000		0		N.D.		
25) 1,1-Dichloroethane	0.000		0		N.D.		
30) cis-1,2-Dichloroethene	0.000		0		N.D.		
32) Bromochloromethane	0.000		0		N.D.		
33) Cyclohexane	0.000		0		N.D.		
34) Chloroform	0.000		0		N.D.		
36) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A19.D
 Acq On : 10 Nov 2017 04:36 pm
 Operator : VOA122:MKS
 Sample : 11740596-06,31,10,10,,a
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 10 17:23:06 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	0.000		0		N.D.	
44) Benzene	0.000		0		N.D.	
47) 1,2-Dichloroethane	0.000		0		N.D.	
50) Methyl cyclohexane	0.000		0		N.D.	
51) Trichloroethene	0.000		0		N.D.	
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	0.000		0		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	0.000		0		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	0.000		0		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104) 1,3-Dichlorobenzene	0.000		0		N.D.	
105) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) 1,2-Dichlorobenzene	0.000		0		N.D.	
110) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

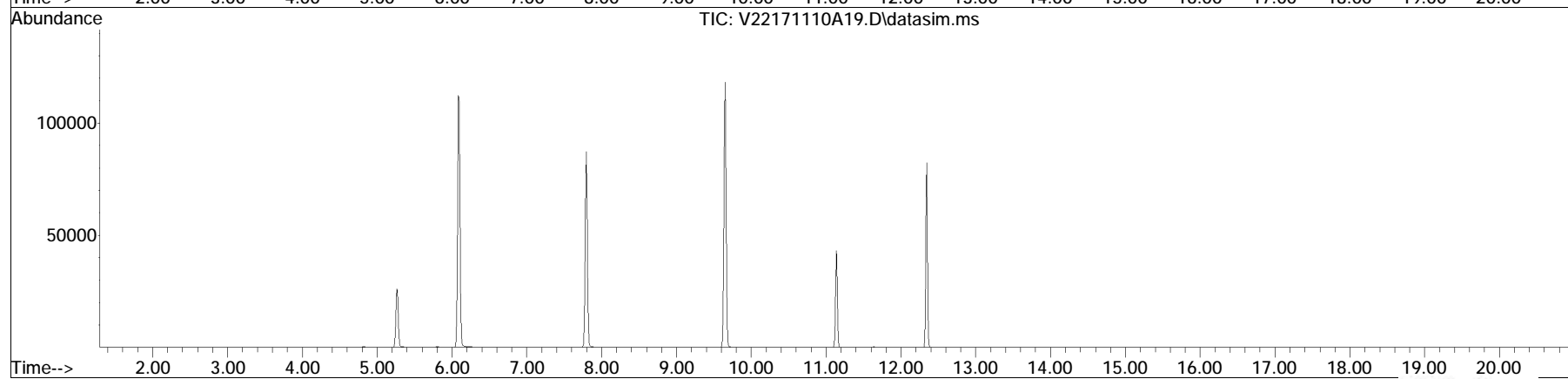
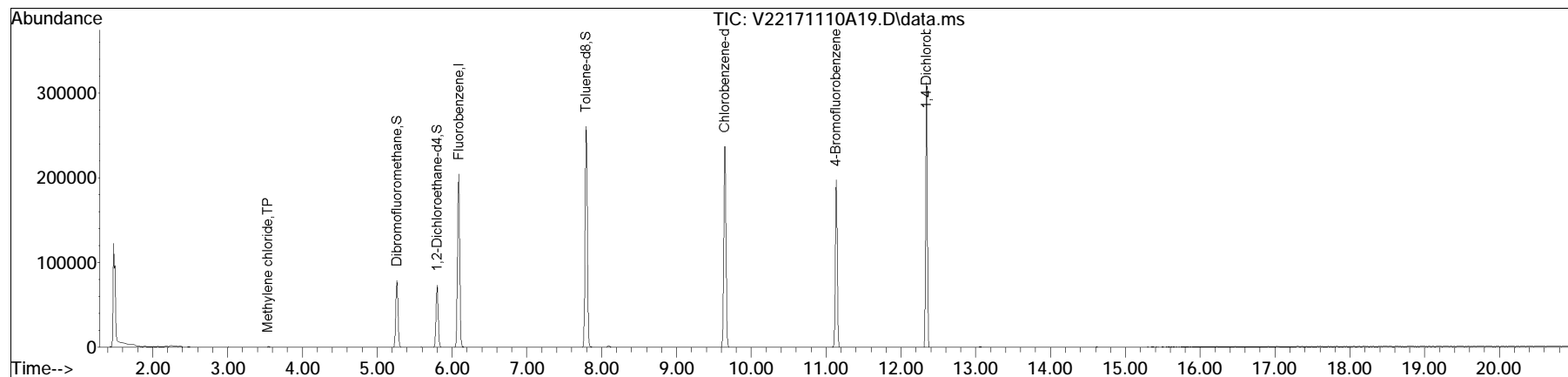
(#) = qualifier out of range (m) = manual integration (+) = signals summed

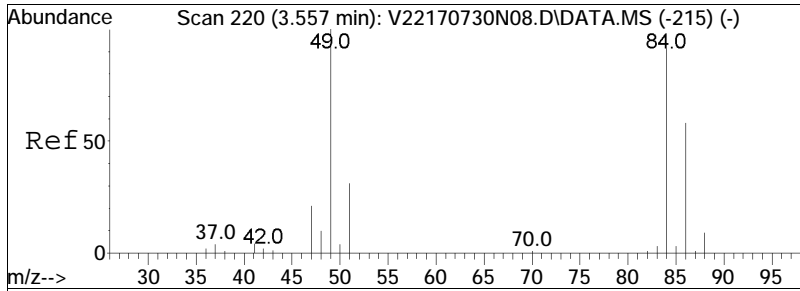
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
Data File : V22171110A19.D
Acq On : 10 Nov 2017 04:36 pm
Operator : VOA122:MKS
Sample : 11740596-06,31,10,10,,a
Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 10 17:23:06 2017
Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

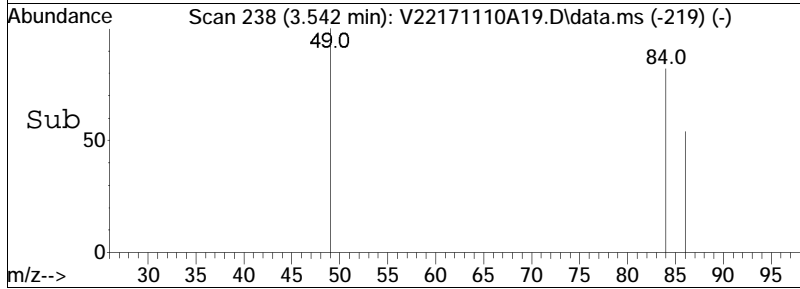
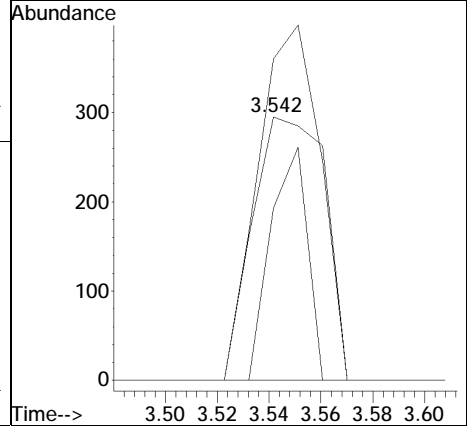
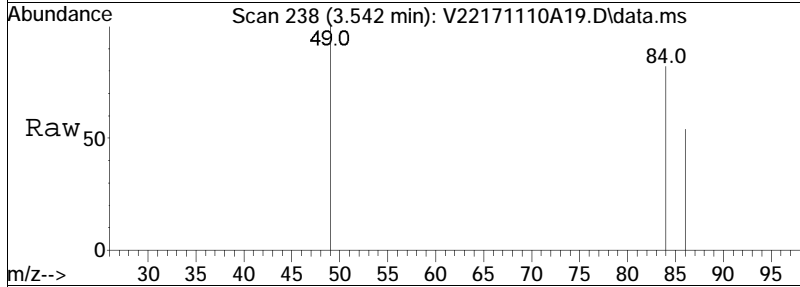
Sub List : 8260-Curve - Megamix plus Diox71110A\V22171110A02.D•





#15
 Methylene chloride
 Concen: 0.11 ug/L
 RT: 3.542 min Scan# 238
 Delta R.T. -0.015 min
 Lab File: V22171110A19.D
 Acq: 10 Nov 2017 04:36 pm

Tgt Ion	Ratio	Lower	Upper
84	100		
86	45.2	41.5	86.3
49	116.5	68.8	143.0



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22171110A19.D Operator : VOA122:MKS
Date Inj'd : 11/10/2017 4:36 pm Instrument : VOA122
Sample : 11740596-06,31,10,10,,a Quant Date : 11/10/2017 5:23 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A20.D
 Acq On : 10 Nov 2017 05:04 pm
 Operator : VOA122:MKS
 Sample : 11740596-07,31,10,10,,a
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 10 17:32:13 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.091	96	199042	10.000	ug/L	0.00	
Standard Area 1 = 209053			Recovery =	95.21%			
62) Chlorobenzene-d5	9.646	117	155153	10.000	ug/L	-0.01	
Standard Area 1 = 165135			Recovery =	93.96%			
83) 1,4-Dichlorobenzene-d4	12.341	152	74605	10.000	ug/L	0.00	
Standard Area 1 = 86857			Recovery =	85.89%			
System Monitoring Compounds							
38) Dibromofluoromethane	5.265	113	48932	9.512	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.12%			
46) 1,2-Dichloroethane-d4	5.802	65	52093	10.941	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	109.41%			
63) Toluene-d8	7.790	98	200969	10.775	ug/L	-0.02	
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.75%			
87) 4-Bromofluorobenzene	11.133	95	69670	10.810	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.10%			
Target Compounds							
2) Dichlorodifluoromethane	0.000		0		N.D.		Qvalue
3) Chloromethane	0.000		0		N.D.	d	
4) Vinyl chloride	0.000		0		N.D.		
5) Bromomethane	0.000		0		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	3.021	76	222		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	3.551	84	822	0.160	ug/L		75
17) Acetone	0.000		0		N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	0.000		0		N.D.	d	
21) Methyl tert-butyl ether	0.000		0		N.D.		
25) 1,1-Dichloroethane	0.000		0		N.D.		
30) cis-1,2-Dichloroethene	0.000		0		N.D.		
32) Bromochloromethane	0.000		0		N.D.		
33) Cyclohexane	0.000		0		N.D.		
34) Chloroform	0.000		0		N.D.		
36) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A20.D
 Acq On : 10 Nov 2017 05:04 pm
 Operator : VOA122:MKS
 Sample : 11740596-07,31,10,10,,a
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 10 17:32:13 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	0.000		0		N.D.	
44) Benzene	0.000		0		N.D.	
47) 1,2-Dichloroethane	5.875	62	111		N.D.	
50) Methyl cyclohexane	0.000		0		N.D.	
51) Trichloroethene	0.000		0		N.D.	
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	0.000		0		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	0.000		0		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	9.646	91	200		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104) 1,3-Dichlorobenzene	0.000		0		N.D.	
105) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) 1,2-Dichlorobenzene	0.000		0		N.D.	
110) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

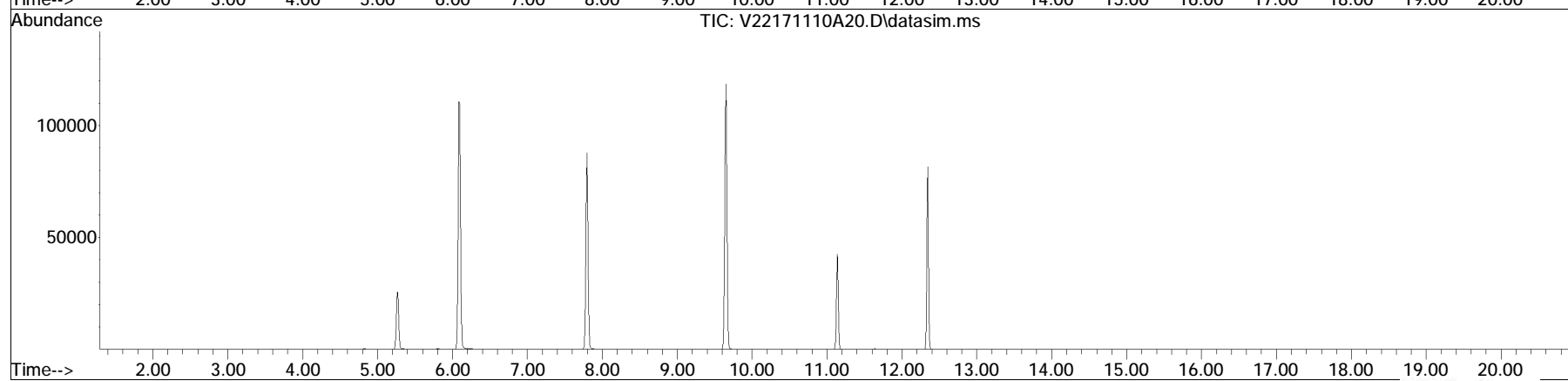
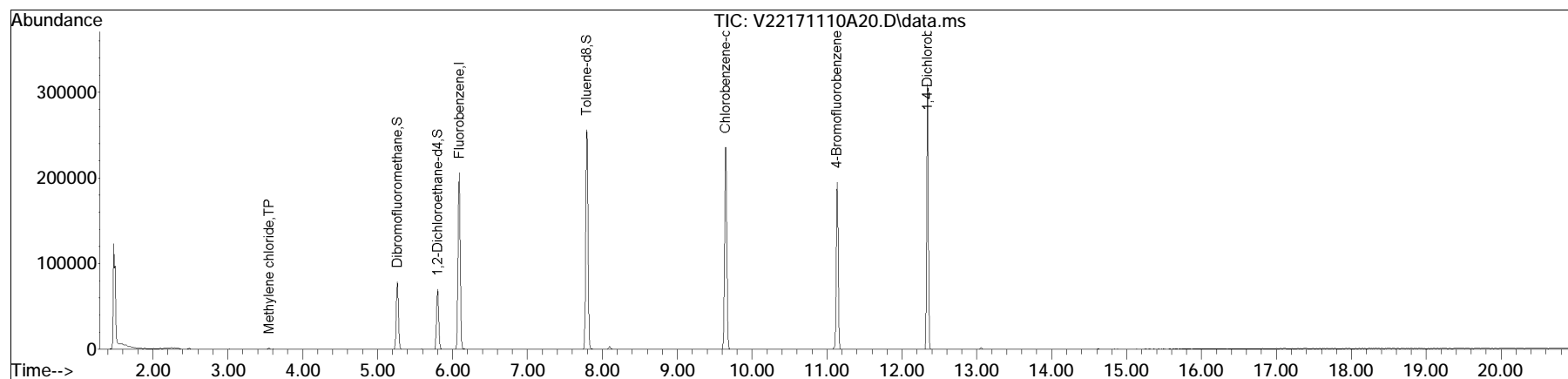
(#) = qualifier out of range (m) = manual integration (+) = signals summed

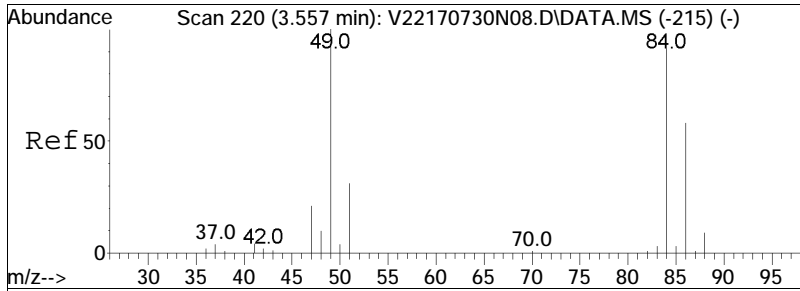
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
Data File : V22171110A20.D
Acq On : 10 Nov 2017 05:04 pm
Operator : VOA122:MKS
Sample : 11740596-07,31,10,10,,a
Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 10 17:32:13 2017
Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

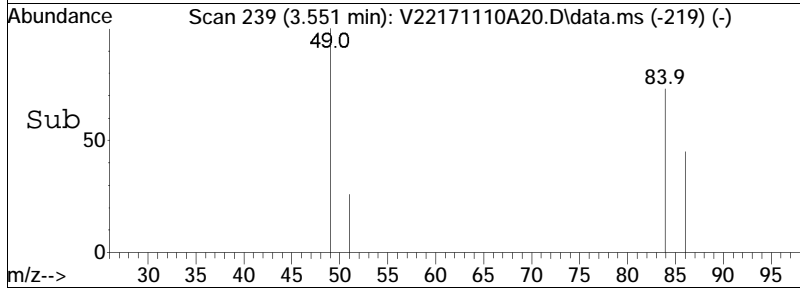
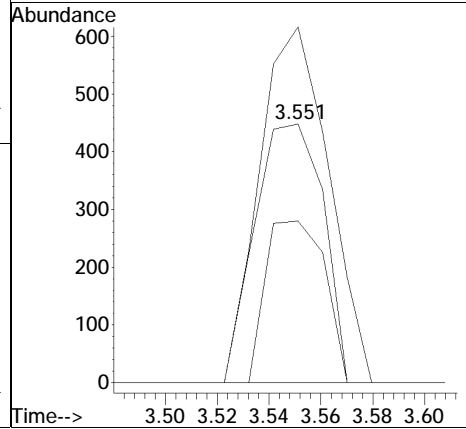
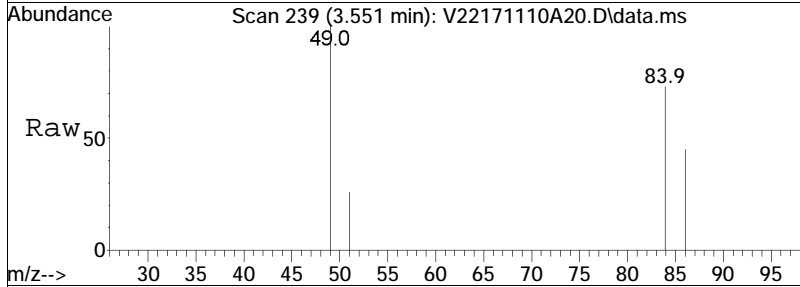
Sub List : 8260-Curve - Megamix plus Diox71110A\V22171110A02.D•





#15
 Methylene chloride
 Concen: 0.16 ug/L
 RT: 3.551 min Scan# 239
 Delta R.T. -0.006 min
 Lab File: V22171110A20.D
 Acq: 10 Nov 2017 05:04 pm

Tgt Ion:	84	Resp:	822
Ion Ratio	Lower	Upper	
84	100		
86	54.0	41.5	86.3
49	139.3	68.8	143.0



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22171110A20.D Operator : VOA122:MKS
Date Inj'd : 11/10/2017 5:04 pm Instrument : VOA122
Sample : 11740596-07,31,10,10,,a Quant Date : 11/10/2017 5:31 pm

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Instrument ID : VOA122
Calibration dates : 08/04/17 20:41 08/05/17 00:48

Lab Number : L1740596
Project Number : 06.6448
Ical Ref : ICAL13890

Calibration Files

L11 =V22170804A03.D L1 =V22170804A04.D L2 =V22170804A07.D L3 =V22170804A08.D L4 =V22170804A09.D
 L6 =V22170804A10.D L8 =V22170804A11.D L10 =V22170804A12.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----									
2) TP Dichlorodifluor		0.143	0.204	0.217	0.217	0.204	0.212	0.205	0.200	12.89
3) TP Chloromethane		0.223	0.252	0.228	0.230	0.221	0.222	0.221	0.228	4.79
4) TC Vinyl chloride	0.224	0.256	0.319	0.301	0.309	0.292	0.297	0.287	0.286	10.88
5) TP Bromomethane		0.172	0.185	0.162	0.181	0.194	0.205	0.211	0.187	9.40
6) TP Chloroethane		0.136	0.181	0.173	0.181	0.174	0.179	0.177	0.172	9.34
7) TP Trichlorofluor		0.302	0.366	0.410	0.427	0.406	0.426	0.416	0.393	11.51
8) TP Ethyl ether		0.108	0.121	0.122	0.128	0.123	0.126	0.128	0.122	5.61
10) TC 1,1-Dichloroet		0.194	0.249	0.242	0.253	0.246	0.258	0.257	0.243	9.16
11) TP Carbon disulfide		0.589	0.703	0.599	0.622	0.598	0.631	0.623	0.624	6.17
12) TP Freon-113		0.149	0.198	0.222	0.231	0.220	0.234	0.231	0.212	14.36
13) TP Iodomethane			0.273	0.293	0.338	0.340	0.343	0.335	0.320	9.27
14) TP Acrolein			0.031	0.035	0.038	0.035	0.036	0.037	0.035#	6.15
15) TP Methylene chlo		0.250	0.274	0.254	0.263	0.254	0.258	0.259	0.259	3.02
17) TP Acetone		0.030	0.034	0.031	0.033	0.030	0.030	0.030	0.031#	5.68
18) TP trans-1,2-Dich		0.243	0.296	0.276	0.290	0.280	0.290	0.288	0.280	6.37
19) TP Methyl acetate		0.069	0.085	0.084	0.088	0.081	0.081	0.080	0.081#	7.44
21) TP Methyl tert butyl ether		0.556	0.615	0.606	0.632	0.594	0.599	0.596	0.600	3.89
22) TP tert-Butyl alc		0.005	0.008	0.008	0.009	0.008	0.008	0.008	0.008#	16.77
24) TP Diisopropyl ether		0.599	0.684	0.652	0.686	0.652	0.651	0.641	0.652	4.48
25) TP 1,1-Dichloroet		0.392	0.484	0.445	0.464	0.443	0.443	0.435	0.444	6.37
26) TP Halothane		0.178	0.219	0.216	0.223	0.215	0.223	0.220	0.214	7.51
27) TP Acrylonitrile		0.026	0.045	0.049	0.051	0.047	0.047	0.047	0.044#	18.29
28) TP Ethyl tert-but		0.606	0.685	0.664	0.692	0.653	0.655	0.650	0.658	4.28
29) TP Vinyl acetate		0.361	0.408	0.411	0.442	0.414	0.413	0.410	0.408	5.85
30) TP cis-1,2-Dichlo		0.272	0.316	0.302	0.313	0.299	0.303	0.301	0.301	4.70
31) TP 2,2-Dichloropr		0.374	0.409	0.389	0.397	0.372	0.377	0.369	0.384	3.84
32) TP Bromochloromet		0.102	0.134	0.131	0.136	0.129	0.128	0.128	0.127	9.06
33) TP Cyclohexane		0.274	0.364	0.392	0.405	0.383	0.399	0.388	0.372	12.18
34) TC Chloroform		0.421	0.501	0.465	0.476	0.454	0.458	0.453	0.461	5.30
35) TP Ethyl acetate		0.118	0.125	0.126	0.135	0.122	0.124	0.121	0.124	4.38
36) TP Carbon tetrachloride	0.225	0.287	0.377	0.393	0.413	0.395	0.413	0.408	0.364	19.09
37) TP Tetrahydrofuran		0.057	0.049	0.046	0.047	0.042	0.042	0.041	0.046#	11.88
38) S Dibromofluoromethane	0.256	0.257	0.257	0.261	0.261	0.259	0.260	0.257	0.258	0.76
39) TP 1,1,1-Trichlor		0.378	0.453	0.440	0.460	0.437	0.452	0.448	0.438	6.33
41) TP 2-Butanone		0.031	0.048	0.049	0.051	0.047	0.047	0.047	0.046#	14.74
42) TP 1,1-Dichloropr		0.310	0.368	0.365	0.381	0.364	0.377	0.369	0.362	6.51
44) TP Benzene	0.955	0.977	1.141	1.049	1.179	1.120	1.127	1.104	1.082	7.43



Initial Calibration Summary

Form 6

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Instrument ID : VOA122
Calibration dates : 08/04/17 20:41 08/05/17 00:48

Lab Number : L1740596
Project Number : 06.6448
Ical Ref : ICAL13890

Calibration Files

L11 =V22170804A03.D L1 =V22170804A04.D L2 =V22170804A07.D L3 =V22170804A08.D L4 =V22170804A09.D
 L6 =V22170804A10.D L8 =V22170804A11.D L10 =V22170804A12.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
45) TP Tertiary-Amyl Methyl Ether		0.572	0.629	0.612	0.637	0.596	0.602	0.601	0.607	3.56
46) S 1,2-Dichloroethane-d4	0.236	0.239	0.240	0.239	0.241	0.240	0.238	0.240	0.239	0.72
47) T 1,2-Dichloroet		0.264	0.298	0.287	0.295	0.275	0.274	0.272	0.281	4.50
50) TP Methyl cyclohe		0.313	0.399	0.433	0.457	0.437	0.463	0.459	0.423	12.61
51) TP Trichloroethene	0.222	0.240	0.301	0.284	0.298	0.288	0.300	0.302	0.279	11.05
53) TP Dibromomethane		0.093	0.112	0.106	0.109	0.101	0.103	0.105	0.104	6.00
54) TC 1,2-Dichloropr		0.211	0.242	0.234	0.244	0.236	0.236	0.238	0.235	4.61
56) TP 2-Chloroethyl		0.102	0.123	0.122	0.127	0.118	0.120	0.121	0.119	6.73
57) TP Bromodichlorom		0.317	0.356	0.344	0.365	0.354	0.357	0.360	0.350	4.62
60) TP 1,4-Dioxane		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000#	10.48
61) TP cis-1,3-Dichlo		0.366	0.411	0.398	0.421	0.407	0.410	0.411	0.403	4.45
62) I Chlorobenzene-d5	-----ISTD-----									
63) S Toluene-d8	1.207	1.228	1.224	1.220	1.195	1.180	1.185	1.178	1.202	1.70
64) TC Toluene		0.757	0.875	0.815	0.834	0.791	0.808	0.809	0.813	4.49
65) TP 4-Methyl-2-pen			0.057	0.060	0.062	0.058	0.060	0.060	0.059#	3.22
66) TP Tetrachloroethene		0.351	0.439	0.426	0.436	0.415	0.435	0.441	0.420	7.61
68) TP trans-1,3-Dich		0.358	0.411	0.412	0.423	0.401	0.403	0.404	0.402	5.15
70) TP Ethyl methacry		0.249	0.271	0.292	0.307	0.290	0.296	0.298	0.286	6.92
71) TP 1,1,2-Trichlor		0.179	0.200	0.196	0.201	0.188	0.189	0.191	0.192	4.06
72) TP Chlorodibromom		0.272	0.297	0.306	0.318	0.306	0.309	0.315	0.303	5.13
73) TP 1,3-Dichloropr		0.380	0.414	0.399	0.404	0.377	0.378	0.378	0.390	3.92
74) TP 1,2-Dibromoethane		0.222	0.238	0.238	0.243	0.252	0.255	0.257	0.244	5.01
76) TP 2-Hexanone		0.068	0.086	0.091	0.096	0.087	0.088	0.089	0.086#	10.26
77) TP Chlorobenzene		0.902	1.009	0.947	0.966	0.923	0.935	0.934	0.945	3.63
78) TC Ethylbenzene		1.480	1.712	1.626	1.651	1.579	1.584	1.547	1.597	4.70
79) TP 1,1,1,2-Tetrac		0.298	0.347	0.336	0.345	0.327	0.329	0.327	0.330	4.93
80) TP p/m Xylene		0.574	0.690	0.648	0.666	0.633	0.640	0.626	0.640	5.65
81) TP o Xylene		0.527	0.612	0.595	0.614	0.587	0.593	0.581	0.587	4.97
82) TP Styrene		0.829	0.952	0.959	1.016	0.978	0.967	0.929	0.947	6.17
83) I 1,4-Dichlorobenzene-d4	-----ISTD-----									
84) TP Bromoform		0.333	0.370	0.378	0.396	0.393	0.406	0.409	0.384	6.87
86) TP Isopropylbenzene		2.911	3.408	3.173	3.180	3.079	3.129	2.987	3.124	5.10
87) S 4-Bromofluorobenzene	0.889	0.878	0.893	0.864	0.844	0.853	0.856	0.834	0.864	2.45
88) TP Bromobenzene		0.744	0.808	0.749	0.752	0.736	0.752	0.751	0.756	3.13
89) TP n-Propylbenzene		3.213	3.867	3.643	3.685	3.556	3.570	3.359	3.556	6.05
90) TP 1,4-Dichlorobu		0.613	0.687	0.651	0.647	0.615	0.612	0.598	0.632	4.92
91) TP 1,1,2,2-Tetrac		0.471	0.493	0.478	0.480	0.446	0.447	0.431	0.464	4.85
92) TP 4-Ethyltoluene		2.639	3.185	2.965	2.965	2.797	2.823	2.683	2.865	6.58



Initial Calibration Summary Form 6

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Instrument ID : VOA122
Calibration dates : 08/04/17 20:41 08/05/17 00:48

Lab Number : L1740596
Project Number : 06.6448
Ical Ref : ICAL13890

Calibration Files

L11 =V22170804A03.D L1 =V22170804A04.D L2 =V22170804A07.D L3 =V22170804A08.D L4 =V22170804A09.D
 L6 =V22170804A10.D L8 =V22170804A11.D L10 =V22170804A12.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
93) TP 2-Chlorotoluene	2.192	2.568	2.345	2.345	2.229	2.232	2.170	2.297	6.00	
94) TP 1,3,5-Trimethy	2.225	2.667	2.504	2.528	2.422	2.441	2.344	2.447	5.76	
95) TP 1,2,3-Trichlor	0.363	0.408	0.381	0.385	0.359	0.358	0.351	0.372	5.41	
96) TP trans-1,4-Dich	0.115	0.120	0.121	0.124	0.116	0.112	0.110	0.117	4.25	
97) TP 4-Chlorotoluene	2.044	2.294	2.120	2.127	2.047	2.042	1.974	2.093	4.92	
98) TP tert-Butylbenzene	2.049	2.437	2.270	2.303	2.218	2.250	2.176	2.243	5.30	
101) TP 1,2,4-Trimethy	2.233	2.686	2.474	2.520	2.437	2.445	2.355	2.450	5.71	
102) TP sec-Butylbenzene	2.864	3.427	3.285	3.323	3.156	3.184	2.992	3.176	6.13	
103) TP p-Isopropyltol	2.398	2.970	2.830	2.889	2.771	2.789	2.647	2.756	6.79	
104) TP 1,3-Dichlorobe	1.359	1.591	1.468	1.490	1.446	1.459	1.434	1.464	4.76	
105) TP 1,4-Dichlorobe	1.363	1.590	1.453	1.447	1.416	1.441	1.414	1.446	4.86	
106) TP p-Diethylbenzene	1.352	1.647	1.625	1.654	1.625	1.667	1.620	1.599	6.88	
107) TP n-Butylbenzene	2.072	2.530	2.480	2.548	2.427	2.463	2.338	2.408	6.80	
108) TP 1,2-Dichlorobe	1.266	1.387	1.303	1.335	1.296	1.314	1.305	1.315	2.88	
109) TP 1,2,4,5-Tetram	2.035	2.467	2.365	2.458	2.409	2.453	2.347	2.362	6.42	
110) TP 1,2-Dibromo-3-	0.047	0.078	0.079	0.084	0.081	0.083	0.085	0.077	17.51	
111) TP 1,3,5-Trichlor	0.939	1.141	1.091	1.135	1.118	1.148	1.137	1.101	6.71	
112) TP Hexachlorobuta	0.368	0.466	0.498	0.518	0.512	0.543	0.545	0.493	12.42	
113) TP 1,2,4-Trichlor	0.844	0.981	0.969	0.984	0.981	1.012	1.007	0.968	5.87	
114) TP Naphthalene	1.580	1.730	1.728	1.779	1.704	1.736	1.716	1.710	3.63	
115) TP 1,2,3-Trichlor	0.808	0.893	0.870	0.887	0.869	0.892	0.884	0.872	3.39	



Response Factor Report VOA122

Method Path : I:\VOLATILES\VOA122\2017\170804A\
 Method File : V122_170804A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Sat Aug 05 11:45:14 2017
 Response Via : Initial Calibration

Calibration Files

L11 =V22170804A03.D L1 =V22170804A04.D L2 =V22170804A07.D L3 =V22170804A08.D L4 =V22170804A09.D
 L6 =V22170804A10.D L8 =V22170804A11.D L10 =V22170804A12.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
-----ISTD-----										
1) I Fluorobenzene										
2) TP Dichlorodifluo...	0.143	0.204	0.217	0.217	0.204	0.212	0.205	0.200	12.89	
3) TP Chloromethane	0.223	0.252	0.228	0.230	0.221	0.222	0.221	0.228	4.79	
4) TC Vinyl chloride	0.224	0.256	0.319	0.301	0.309	0.292	0.297	0.287	10.88	
5) TP Bromomethane	0.172	0.185	0.162	0.181	0.194	0.205	0.211	0.187	9.40	
6) TP Chloroethane	0.136	0.181	0.173	0.181	0.174	0.179	0.177	0.172	9.34	
7) TP Trichlorofluor...	0.302	0.366	0.410	0.427	0.406	0.426	0.416	0.393	11.51	
8) TP Ethyl ether	0.108	0.121	0.122	0.128	0.123	0.126	0.128	0.122	5.61	
10) TC 1,1-Dichloroet...	0.194	0.249	0.242	0.253	0.246	0.258	0.257	0.243	9.16	
11) TP Carbon disulfide	0.589	0.703	0.599	0.622	0.598	0.631	0.623	0.624	6.17	
12) TP Freon-113	0.149	0.198	0.222	0.231	0.220	0.234	0.231	0.212	14.36	
13) TP Iodomethane		0.273	0.293	0.338	0.340	0.343	0.335	0.320	9.27	
14) TP Acrolein		0.031	0.035	0.038	0.035	0.036	0.037	0.035#	6.15	
15) TP Methylene chlo...	0.250	0.274	0.254	0.263	0.254	0.258	0.259	0.259	3.02	
17) TP Acetone	0.030	0.034	0.031	0.033	0.030	0.030	0.030	0.031#	5.68	
18) TP trans-1,2-Dich...	0.243	0.296	0.276	0.290	0.280	0.290	0.288	0.280	6.37	
19) TP Methyl acetate	0.069	0.085	0.084	0.088	0.081	0.081	0.080	0.081#	7.44	
21) TP Methyl tert-bu...	0.556	0.615	0.606	0.632	0.594	0.599	0.596	0.600	3.89	
22) TP tert-Butyl alc...	0.005	0.008	0.008	0.009	0.008	0.008	0.008	0.008#	16.77	
24) TP Diisopropyl ether	0.599	0.684	0.652	0.686	0.652	0.651	0.641	0.652	4.48	
25) TP 1,1-Dichloroet...	0.392	0.484	0.445	0.464	0.443	0.443	0.435	0.444	6.37	
26) TP Halothane	0.178	0.219	0.216	0.223	0.215	0.223	0.220	0.214	7.51	
27) TP Acrylonitrile	0.026	0.045	0.049	0.051	0.047	0.047	0.047	0.044#	18.29	
28) TP Ethyl tert-but...	0.606	0.685	0.664	0.692	0.653	0.655	0.650	0.658	4.28	
29) TP Vinyl acetate	0.361	0.408	0.411	0.442	0.414	0.413	0.410	0.408	5.85	
30) TP cis-1,2-Dichlo...	0.272	0.316	0.302	0.313	0.299	0.303	0.301	0.301	4.70	
31) TP 2,2-Dichloropr...	0.374	0.409	0.389	0.397	0.372	0.377	0.369	0.384	3.84	
32) TP Bromochloromet...	0.102	0.134	0.131	0.136	0.129	0.128	0.128	0.127	9.06	
33) TP Cyclohexane	0.274	0.364	0.392	0.405	0.383	0.399	0.388	0.372	12.18	
34) TC Chloroform	0.421	0.501	0.465	0.476	0.454	0.458	0.453	0.461	5.30	
35) TP Ethyl acetate	0.118	0.125	0.126	0.135	0.122	0.124	0.121	0.124	4.38	

Response Factor Report VOA122

Method Path : I:\VOLATILES\VOA122\2017\170804A\
 Method File : V122_170804A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Sat Aug 05 11:45:14 2017
 Response Via : Initial Calibration

Calibration Files

L11 =V22170804A03.D L1 =V22170804A04.D L2 =V22170804A07.D L3 =V22170804A08.D L4 =V22170804A09.D
 L6 =V22170804A10.D L8 =V22170804A11.D L10 =V22170804A12.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
36) TP Carbon tetrach...	0.225	0.287	0.377	0.393	0.413	0.395	0.413	0.408	0.364	19.09
37) TP Tetrahydrofuran	0.057	0.049	0.046	0.047	0.042	0.042	0.041	0.046#		11.88
38) S Dibromofluorom...	0.256	0.257	0.257	0.261	0.261	0.259	0.260	0.257	0.258	0.76
39) TP 1,1,1-Trichlor...	0.378	0.453	0.440	0.460	0.437	0.452	0.448	0.438		6.33
41) TP 2-Butanone	0.031	0.048	0.049	0.051	0.047	0.047	0.047	0.046#		14.74
42) TP 1,1-Dichloropr...	0.310	0.368	0.365	0.381	0.364	0.377	0.369	0.362		6.51
44) TP Benzene	0.955	0.977	1.141	1.049	1.179	1.120	1.127	1.104	1.082	7.43
45) TP tert-Amyl meth...	0.572	0.629	0.612	0.637	0.596	0.602	0.601	0.607		3.56
46) S 1,2-Dichloroet...	0.236	0.239	0.240	0.239	0.241	0.240	0.238	0.240	0.239	0.72
47) T 1,2-Dichloroet...	0.264	0.298	0.287	0.295	0.275	0.274	0.272	0.281		4.50
50) TP Methyl cyclohe...	0.313	0.399	0.433	0.457	0.437	0.463	0.459	0.423		12.61
51) TP Trichloroethene	0.222	0.240	0.301	0.284	0.298	0.288	0.300	0.302	0.279	11.05
53) TP Dibromomethane	0.093	0.112	0.106	0.109	0.101	0.103	0.105	0.104		6.00
54) TC 1,2-Dichloropr...	0.211	0.242	0.234	0.244	0.236	0.236	0.238	0.235		4.61
56) TP 2-Chloroethyl ...	0.102	0.123	0.122	0.127	0.118	0.120	0.121	0.119		6.73
57) TP Bromodichlorom...	0.317	0.356	0.344	0.365	0.354	0.357	0.360	0.350		4.62
60) TP 1,4-Dioxane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000#		10.48
61) TP cis-1,3-Dichlo...	0.366	0.411	0.398	0.421	0.407	0.410	0.411	0.403		4.45
62) I Chlorobenzene-d5	-----ISTD-----									
63) S Toluene-d8	1.207	1.228	1.224	1.220	1.195	1.180	1.185	1.178	1.202	1.70
64) TC Toluene	0.757	0.875	0.815	0.834	0.791	0.808	0.809	0.813		4.49
65) TP 4-Methyl-2-pen...		0.057	0.060	0.062	0.058	0.060	0.060	0.059#		3.22
66) TP Tetrachloroethene	0.351	0.439	0.426	0.436	0.415	0.435	0.441	0.420		7.61
68) TP trans-1,3-Dich...	0.358	0.411	0.412	0.423	0.401	0.403	0.404	0.402		5.15
70) TP Ethyl methacry...	0.249	0.271	0.292	0.307	0.290	0.296	0.298	0.286		6.92
71) TP 1,1,2-Trichlor...	0.179	0.200	0.196	0.201	0.188	0.189	0.191	0.192		4.06
72) TP Chlorodibromom...	0.272	0.297	0.306	0.318	0.306	0.309	0.315	0.303		5.13
73) TP 1,3-Dichloropr...	0.380	0.414	0.399	0.404	0.377	0.378	0.378	0.390		3.92
74) TP 1,2-Dibromoethane	0.222	0.238	0.238	0.243	0.252	0.255	0.257	0.244		5.01
76) TP 2-Hexanone	0.068	0.086	0.091	0.096	0.087	0.088	0.089	0.086#		10.26
77) TP Chlorobenzene	0.902	1.009	0.947	0.966	0.923	0.935	0.934	0.945		3.63

Response Factor Report VOA122

Method Path : I:\VOLATILES\VOA122\2017\170804A\
 Method File : V122_170804A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Sat Aug 05 11:45:14 2017
 Response Via : Initial Calibration

Calibration Files

L11 =V22170804A03.D L1 =V22170804A04.D L2 =V22170804A07.D L3 =V22170804A08.D L4 =V22170804A09.D
 L6 =V22170804A10.D L8 =V22170804A11.D L10 =V22170804A12.D

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
78) TC Ethylbenzene	1.480	1.712	1.626	1.651	1.579	1.584	1.547	1.597	4.70	
79) TP 1,1,1,2-Tetrac...	0.298	0.347	0.336	0.345	0.327	0.329	0.327	0.330	4.93	
80) TP p/m Xylene	0.574	0.690	0.648	0.666	0.633	0.640	0.626	0.640	5.65	
81) TP o Xylene	0.527	0.612	0.595	0.614	0.587	0.593	0.581	0.587	4.97	
82) TP Styrene	0.829	0.952	0.959	1.016	0.978	0.967	0.929	0.947	6.17	
83) I 1,4-Dichlorobenzene-d4	-----ISTD-----									
84) TP Bromoform	0.333	0.370	0.378	0.396	0.393	0.406	0.409	0.384	6.87	
86) TP Isopropylbenzene	2.911	3.408	3.173	3.180	3.079	3.129	2.987	3.124	5.10	
87) S 4-Bromofluorob...	0.889	0.878	0.893	0.864	0.844	0.853	0.856	0.834	0.864	2.45
88) TP Bromobenzene	0.744	0.808	0.749	0.752	0.736	0.752	0.751	0.756	3.13	
89) TP n-Propylbenzene	3.213	3.867	3.643	3.685	3.556	3.570	3.359	3.556	6.05	
90) TP 1,4-Dichlorobu...	0.613	0.687	0.651	0.647	0.615	0.612	0.598	0.632	4.92	
91) TP 1,1,2,2-Tetrac...	0.471	0.493	0.478	0.480	0.446	0.447	0.431	0.464	4.85	
92) TP 4-Ethyltoluene	2.639	3.185	2.965	2.965	2.797	2.823	2.683	2.865	6.58	
93) TP 2-Chlorotoluene	2.192	2.568	2.345	2.345	2.229	2.232	2.170	2.297	6.00	
94) TP 1,3,5-Trimethy...	2.225	2.667	2.504	2.528	2.422	2.441	2.344	2.447	5.76	
95) TP 1,2,3-Trichlor...	0.363	0.408	0.381	0.385	0.359	0.358	0.351	0.372	5.41	
96) TP trans-1,4-Dich...	0.115	0.120	0.121	0.124	0.116	0.112	0.110	0.117	4.25	
97) TP 4-Chlorotoluene	2.044	2.294	2.120	2.127	2.047	2.042	1.974	2.093	4.92	
98) TP tert-Butylbenzene	2.049	2.437	2.270	2.303	2.218	2.250	2.176	2.243	5.30	
101) TP 1,2,4-Trimethy...	2.233	2.686	2.474	2.520	2.437	2.445	2.355	2.450	5.71	
102) TP sec-Butylbenzene	2.864	3.427	3.285	3.323	3.156	3.184	2.992	3.176	6.13	
103) TP p-Isopropyltol...	2.398	2.970	2.830	2.889	2.771	2.789	2.647	2.756	6.79	
104) TP 1,3-Dichlorobe...	1.359	1.591	1.468	1.490	1.446	1.459	1.434	1.464	4.76	
105) TP 1,4-Dichlorobe...	1.363	1.590	1.453	1.447	1.416	1.441	1.414	1.446	4.86	
106) TP p-Diethylbenzene	1.352	1.647	1.625	1.654	1.625	1.667	1.620	1.599	6.88	
107) TP n-Butylbenzene	2.072	2.530	2.480	2.548	2.427	2.463	2.338	2.408	6.80	
108) TP 1,2-Dichlorobe...	1.266	1.387	1.303	1.335	1.296	1.314	1.305	1.315	2.88	
109) TP 1,2,4,5-Tetram...	2.035	2.467	2.365	2.458	2.409	2.453	2.347	2.362	6.42	
110) TP 1,2-Dibromo-3-...	0.047	0.078	0.079	0.084	0.081	0.083	0.085	0.077	17.51	
111) TP 1,3,5-Trichlor...	0.939	1.141	1.091	1.135	1.118	1.148	1.137	1.101	6.71	

Response Factor Report VOA122

Method Path : I:\VOLATILES\VOA122\2017\170804A\
 Method File : V122_170804A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Sat Aug 05 11:45:14 2017
 Response Via : Initial Calibration

Calibration Files

L11 =V22170804A03.D L1 =V22170804A04.D L2 =V22170804A07.D L3 =V22170804A08.D L4 =V22170804A09.D
 L6 =V22170804A10.D L8 =V22170804A11.D L10 =V22170804A12.D

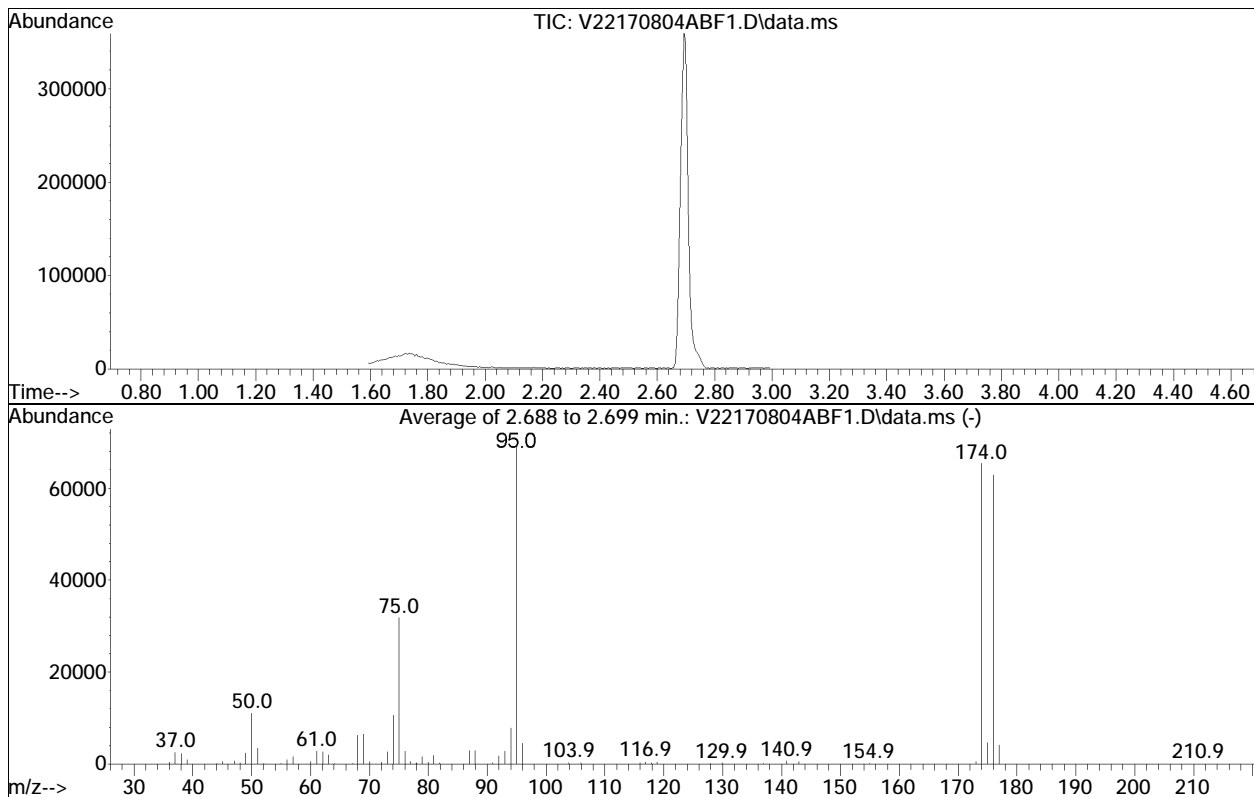
Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
112) TP Hexachlorobuta...	0.368	0.466	0.498	0.518	0.512	0.543	0.545	0.493	12.42	
113) TP 1,2,4-Trichlor...	0.844	0.981	0.969	0.984	0.981	1.012	1.007	0.968	5.87	
114) TP Naphthalene	1.580	1.730	1.728	1.779	1.704	1.736	1.716	1.710	3.63	
115) TP 1,2,3-Trichlor...	0.808	0.893	0.870	0.887	0.869	0.892	0.884	0.872	3.39	

(#) = Out of Range

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804ABF1.D
 Acq On : 04 Aug 2017 19:28
 Operator : VOA122:MAB
 Sample : WG1029271-1
 Misc : WG1029271,ICAL
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Sat Aug 05 11:45:14 2017



AutoFind: Scans 210, 211, 212; Background Corrected with Scan 201

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.8	10999	PASS
75	95	30	60	45.8	31813	PASS
95	95	100	100	100.0	69472	PASS
96	95	5	9	6.5	4531	PASS
173	174	0.00	2	0.9	565	PASS
174	95	50	100	94.1	65379	PASS
175	174	5	9	7.2	4693	PASS
176	174	95	101	96.3	62952	PASS
177	176	5	9	6.6	4161	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A03.D
 Acq On : 04 Aug 2017 20:41
 Operator : VOA122:MAB
 Sample : ISTD11
 Misc : WG1029271,ICAL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 11:25:16 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.101	96	172318	10.000	ug/L	0.00
Standard Area 1 = 168241			Recovery = 102.42%			
62) Chlorobenzene-d5	9.658	117	143376	10.000	ug/L	0.00
Standard Area 1 = 139995			Recovery = 102.42%			
83) 1,4-Dichlorobenzene-d4	12.349	152	72629	10.000	ug/L	0.00
Standard Area 1 = 75642			Recovery = 96.02%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.270	113	44090	9.819	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.19%			
46) 1,2-Dichloroethane-d4	5.813	65	40623	9.845	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.45%			
63) Toluene-d8	7.807	98	172990	9.886	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.86%			
87) 4-Bromofluorobenzene	11.143	95	64594	10.289	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.89%			
Target Compounds						
						Qvalue
4) Vinyl chloride	1.896	62	771	0.149	ug/L	93
36) Carbon tetrachloride	5.239	117	777	0.115	ug/L #	72
44) Benzene	5.673	78	3290	0.182	ug/L #	86
51) Trichloroethene	6.264	95	766	0.157	ug/L	88

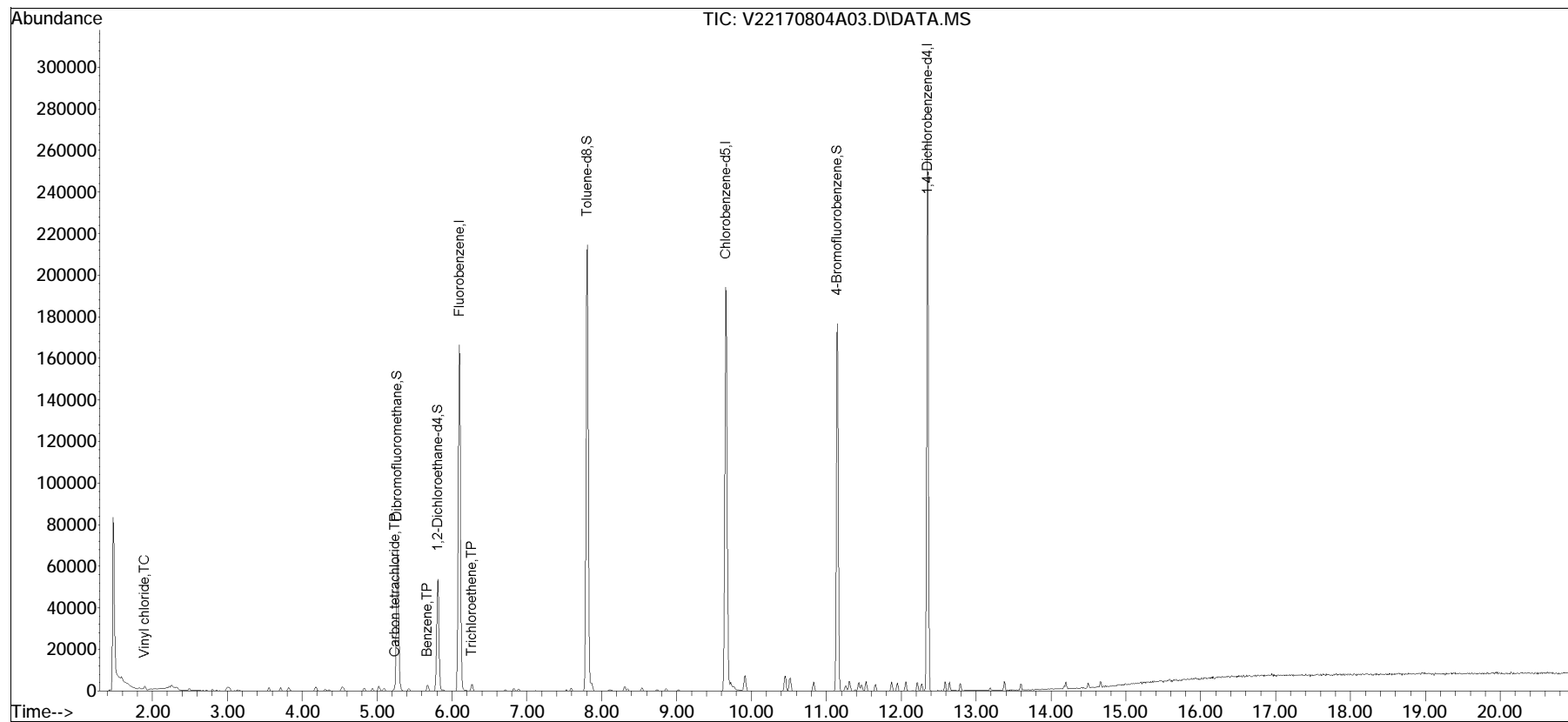
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
Data File : V22170804A03.D
Acq On : 04 Aug 2017 20:41
Operator : VOA122:MAB
Sample : ISTD11
Misc : WG1029271,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 11:25:16 2017
Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:24:55 2017
Response via : Initial Calibration

Sub List : 8260-L11 - Level 11 for 8260-LRR product170804A08.D•



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22170804A03.D Operator : VOA122:MAB
Date Inj'd : 8/4/2017 20:41 Instrument : VOA122
Sample : ISTD11 Quant Date : 8/5/2017 11:25 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A04.D
 Acq On : 04 Aug 2017 21:08
 Operator : VOA122:MAB
 Sample : ISTD1
 Misc : WG1029271,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 11:34:45 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.101	96	165877	10.000	ug/L	0.00
Standard Area 1 = 168241			Recovery =	98.59%		
62) Chlorobenzene-d5	9.658	117	137017	10.000	ug/L	0.00
Standard Area 1 = 139995			Recovery =	97.87%		
83) 1,4-Dichlorobenzene-d4	12.350	152	71719	10.000	ug/L	0.00
Standard Area 1 = 75642			Recovery =	94.81%		
System Monitoring Compounds						
38) Dibromofluoromethane	5.270	113	42648	9.867	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.67%		
46) 1,2-Dichloroethane-d4	5.813	65	39693	9.993	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.93%		
63) Toluene-d8	7.807	98	168210	10.059	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.59%		
87) 4-Bromofluorobenzene	11.144	95	62946	10.154	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.54%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.628	85	1187	0.330	ug/L	# 84
3) Chloromethane	1.824	50	1853	0.490	ug/L	91
4) Vinyl chloride	1.896	62	2124	0.426	ug/L	84
5) Bromomethane	2.227	94	1425	0.531	ug/L	97
6) Chloroethane	2.350	64	1129	0.393	ug/L	99
7) Trichlorofluoromethane	2.495	101	2501	0.367	ug/L	99
8) Ethyl ether	2.804	74	896	11.591	ug/L	# 1
10) 1,1-Dichloroethene	2.990	96	1611	0.401	ug/L	91
11) Carbon disulfide	3.021	76	4881	0.491	ug/L	97
12) Freon-113	3.042	101	1234	0.335	ug/L	93
13) Iodomethane	3.135	142	1676	0.345	ug/L	# 84
14) Acrolein	3.331	56	97	0.167	ug/L	# 62
15) Methylene chloride	3.558	84	2070	0.490	ug/L	97
17) Acetone	3.619	43	245	0.479	ug/L	# 46
18) trans-1,2-Dichloroethene	3.712	96	2015	0.440	ug/L	98
19) Methyl acetate	3.733	43	576	0.412	ug/L	# 50
21) Methyl tert-butyl ether	3.826	73	4615	0.459	ug/L	96
22) tert-Butyl alcohol	3.898	59	208	1.483	ug/L	# 59
24) Diisopropyl ether	4.177	45	4972	0.460	ug/L	97
25) 1,1-Dichloroethane	4.311	63	3249	0.440	ug/L	93
26) Halothane	4.362	117	1475	0.412	ug/L	# 76

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A04.D
 Acq On : 04 Aug 2017 21:08
 Operator : VOA122:MAB
 Sample : ISTD1
 Misc : WG1029271,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 11:34:45 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Acrylonitrile	4.362	53	219	0.272	ug/L #	43
28) Ethyl tert-butyl ether	4.538	59	5024	0.456	ug/L	98
29) Vinyl acetate	4.548	43	2995	0.439	ug/L #	81
30) cis-1,2-Dichloroethene	4.827	96	2257	0.450	ug/L	94
31) 2,2-Dichloropropane	4.940	77	3104	0.481	ug/L	100
32) Bromochloromethane	5.023	128	842	0.389	ug/L #	79
33) Cyclohexane	5.023	56	2270	0.349	ug/L	99
34) Chloroform	5.095	83	3490	0.453	ug/L #	96
35) Ethyl acetate	5.219	43	976	0.467	ug/L #	65
36) Carbon tetrachloride	5.229	117	2380	0.365	ug/L #	92
37) Tetrahydrofuran	5.270	42	472	0.625	ug/L #	77
39) 1,1,1-Trichloroethane	5.301	97	3133	0.429	ug/L #	97
41) 2-Butanone	5.404	43	256	0.317	ug/L #	22
42) 1,1-Dichloropropene	5.425	75	2574	0.425	ug/L	93
44) Benzene	5.673	78	8107	0.466	ug/L	99
45) tert-Amyl methyl ether	5.798	73	4746	0.468	ug/L	96
47) 1,2-Dichloroethane	5.883	62	2193	0.461	ug/L #	93
50) Methyl cyclohexane	6.265	83	2595	0.361	ug/L	99
51) Trichloroethene	6.272	95	1991	0.423	ug/L	98
53) Dibromomethane	6.716	93	770	0.439	ug/L	86
54) 1,2-Dichloropropane	6.825	63	1754	0.451	ug/L	96
56) 2-Chloroethyl vinyl ether	7.529	63	847	0.418	ug/L #	89
57) Bromodichloromethane	6.887	83	2628	0.461	ug/L #	92
60) 1,4-Dioxane	7.113	88	572	81.049	ug/L #	80
61) cis-1,3-Dichloropropene	7.592	75	3033	0.460	ug/L	99
64) Toluene	7.869	92	5184	0.464	ug/L	99
65) 4-Methyl-2-pentanone	8.320	58	224	0.272	ug/L #	15
66) Tetrachloroethene	8.306	166	2403	0.412	ug/L	98
68) trans-1,3-Dichloropropene	8.348	75	2452	0.434	ug/L	98
70) Ethyl methacrylate	8.549	69	1704	0.425	ug/L	91
71) 1,1,2-Trichloroethane	8.528	83	1224	0.455	ug/L	98
72) Chlorodibromomethane	8.743	129	1861	0.444	ug/L #	94
73) 1,3-Dichloropropane	8.868	76	2601	0.476	ug/L	96
74) 1,2-Dibromoethane	9.027	107	1523	0.466	ug/L	97
76) 2-Hexanone	9.328	43	463	0.371	ug/L #	48
77) Chlorobenzene	9.680	112	6178	0.476	ug/L #	85
78) Ethylbenzene	9.723	91	10140	0.455	ug/L	98
79) 1,1,1,2-Tetrachloroethane	9.766	131	2040	0.444	ug/L #	63
80) p/m Xylene	9.917	106	7870	0.887	ug/L	100
81) o Xylene	10.455	106	7217	0.885	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A04.D
 Acq On : 04 Aug 2017 21:08
 Operator : VOA122:MAB
 Sample : ISTD1
 Misc : WG1029271,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 11:34:45 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.519	104	11360	0.864	ug/L	99
84) Bromoform	10.530	173	1194	0.441	ug/L	93
86) Isopropylbenzene	10.832	105	10439	0.459	ug/L	100
88) Bromobenzene	11.262	156	2668	0.497	ug/L	99
89) n-Propylbenzene	11.305	91	11523	0.441	ug/L	98
90) 1,4-Dichlorobutane	11.327	55	2197	0.471	ug/L	95
91) 1,1,2,2-Tetrachloroethane	11.380	83	1689	0.493	ug/L #	93
92) 4-Ethyltoluene	11.434	105	9463	0.445	ug/L	99
93) 2-Chlorotoluene	11.467	91	7859	0.467	ug/L	99
94) 1,3,5-Trimethylbenzene	11.531	105	7977	0.444	ug/L	99
95) 1,2,3-Trichloropropane	11.531	75	1301	0.476	ug/L	91
96) trans-1,4-Dichloro-2-b...	11.585	53	413	0.476	ug/L #	74
97) 4-Chlorotoluene	11.650	91	7330	0.482	ug/L	96
98) tert-Butylbenzene	11.870	119	7347	0.451	ug/L	97
101) 1,2,4-Trimethylbenzene	11.944	105	8009	0.451	ug/L	99
102) sec-Butylbenzene	12.062	105	10271	0.436	ug/L	100
103) p-Isopropyltoluene	12.217	119	8599	0.424	ug/L	100
104) 1,3-Dichlorobenzene	12.276	146	4874	0.463	ug/L	98
105) 1,4-Dichlorobenzene	12.372	146	4887M3	0.469	ug/L	
106) p-Diethylbenzene	12.586	119	4849	0.416	ug/L	97
107) n-Butylbenzene	12.645	91	7429	0.418	ug/L	97
108) 1,2-Dichlorobenzene	12.792	146	4539	0.486	ug/L	95
109) 1,2,4,5-Tetramethylben...	13.382	119	7296	0.430	ug/L	98
110) 1,2-Dibromo-3-chloropr...	13.567	155	168	0.297	ug/L	90
111) 1,3,5-Trichlorobenzene	13.596	180	3368	0.430	ug/L	99
112) Hexachlorobutadiene	14.172	225	1321	0.370	ug/L	98
113) 1,2,4-Trichlorobenzene	14.201	180	3027	0.436	ug/L	95
114) Naphthalene	14.496	128	5666	0.457	ug/L	100
115) 1,2,3-Trichlorobenzene	14.659	180	2899	0.465	ug/L	96

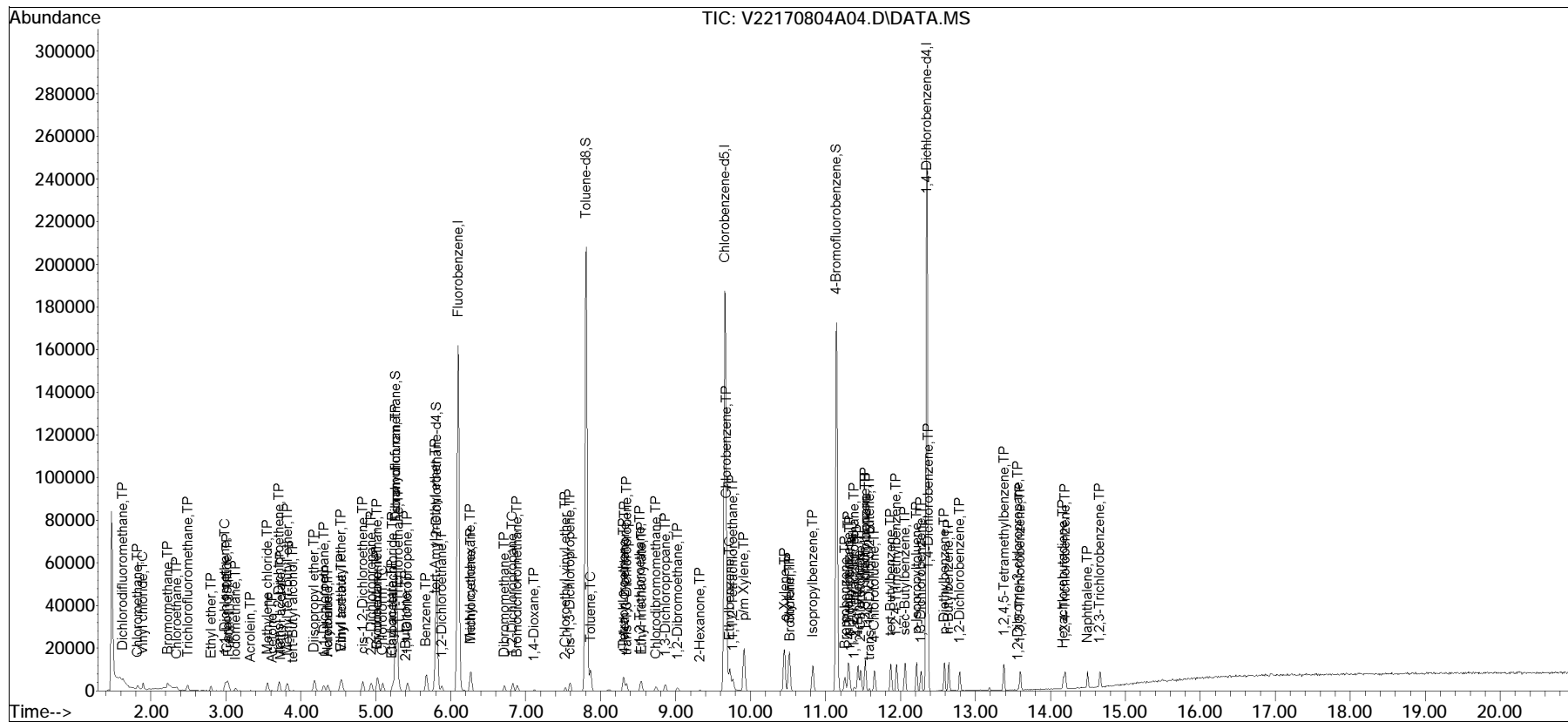
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A04.D
 Acq On : 04 Aug 2017 21:08
 Operator : VOA122:MAB
 Sample : ISTD1
 Misc : WG1029271,ICAL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 11:34:45 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

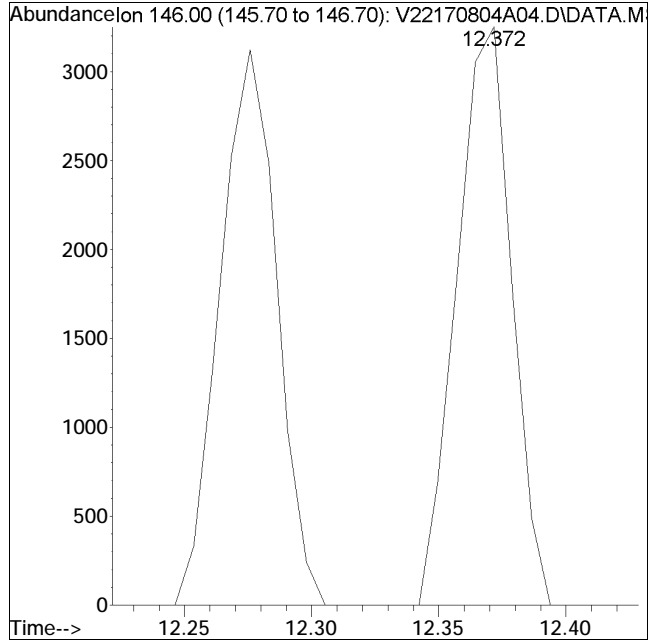
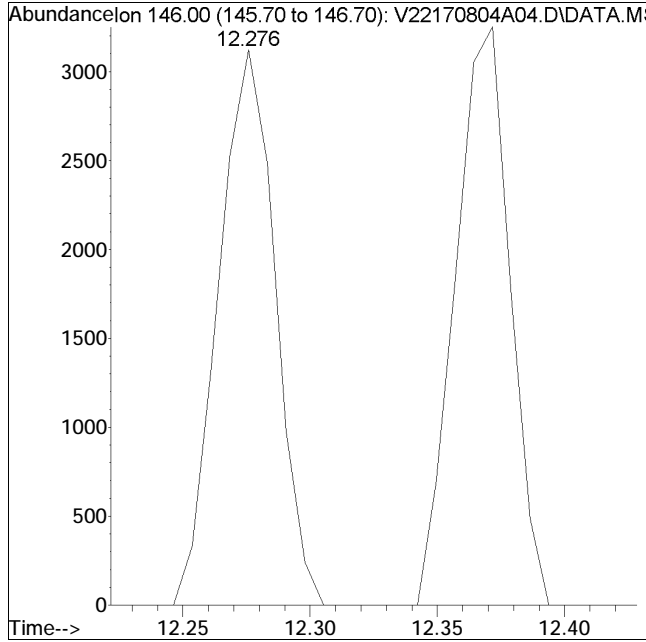
Sub List : 8260-Curve - Megamix plus Diox70804A\V22170804A08.D•



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22170804A04.D Operator : VOA122:MAB
Date Inj'd : 8/4/2017 21:08 Instrument : VOA122
Sample : ISTDL1 Quant Date : 8/5/2017 11:25 am

Compound #105: 1,4-Dichlorobenzene



Original Peak Response = 4874

Manual Peak Response = 4887 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A07.D
 Acq On : 04 Aug 2017 22:31
 Operator : VOA122:MAB
 Sample : ISTD2
 Misc : WG1029271,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 11:29:55 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.101	96	161032	10.000	ug/L	0.00	
Standard Area 1 = 168241			Recovery =	95.72%			
62) Chlorobenzene-d5	9.658	117	133803	10.000	ug/L	0.00	
Standard Area 1 = 139995			Recovery =	95.58%			
83) 1,4-Dichlorobenzene-d4	12.350	152	69085	10.000	ug/L	0.00	
Standard Area 1 = 75642			Recovery =	91.33%			
System Monitoring Compounds							
38) Dibromofluoromethane	5.270	113	41381	9.861	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.61%			
46) 1,2-Dichloroethane-d4	5.813	65	38577	10.004	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.04%			
63) Toluene-d8	7.807	98	163839	10.033	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.33%			
87) 4-Bromofluorobenzene	11.144	95	61659	10.325	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.25%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.638	85	6583	1.888	ug/L		95
3) Chloromethane	1.824	50	8103	2.205	ug/L		99
4) Vinyl chloride	1.896	62	10270	2.122	ug/L		99
5) Bromomethane	2.227	94	5952	2.286	ug/L		96
6) Chloroethane	2.350	64	5838	2.091	ug/L		94
7) Trichlorofluoromethane	2.495	101	11801	1.786	ug/L		97
8) Ethyl ether	2.804	74	3886	51.785	ug/L #		1
10) 1,1-Dichloroethene	2.990	96	8024	2.060	ug/L		99
11) Carbon disulfide	3.021	76	22652	2.347	ug/L		99
12) Freon-113	3.042	101	6390	1.786	ug/L		96
13) Iodomethane	3.134	142	8796	1.865	ug/L		100
14) Acrolein	3.320	56	1011	1.795	ug/L		97
15) Methylene chloride	3.558	84	8811	2.150	ug/L		99
17) Acetone	3.609	43	1103	2.223	ug/L #		81
18) trans-1,2-Dichloroethene	3.712	96	9541	2.147	ug/L		98
19) Methyl acetate	3.733	43	2750	2.026	ug/L #		92
21) Methyl tert-butyl ether	3.815	73	19821	2.031	ug/L		99
22) tert-Butyl alcohol	3.898	59	1220	8.957	ug/L #		80
24) Diisopropyl ether	4.187	45	22043	2.099	ug/L		100
25) 1,1-Dichloroethane	4.311	63	15576	2.172	ug/L		99
26) Halothane	4.362	117	7064	2.032	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A07.D
 Acq On : 04 Aug 2017 22:31
 Operator : VOA122:MAB
 Sample : ISTD2
 Misc : WG1029271,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 11:29:55 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Acrylonitrile	4.362	53	1448	1.852	ug/L	98
28) Ethyl tert-butyl ether	4.538	59	22069	2.063	ug/L	98
29) Vinyl acetate	4.558	43	13126	1.982	ug/L	97
30) cis-1,2-Dichloroethene	4.827	96	10171	2.091	ug/L	98
31) 2,2-Dichloropropane	4.940	77	13159	2.102	ug/L	99
32) Bromochloromethane	5.023	128	4303	2.046	ug/L	98
33) Cyclohexane	5.033	56	11722	1.858	ug/L	99
34) Chloroform	5.095	83	16134	2.156	ug/L	99
35) Ethyl acetate	5.219	43	4023	1.981	ug/L #	86
36) Carbon tetrachloride	5.239	117	12150	1.921	ug/L	97
37) Tetrahydrofuran	5.260	42	1567	2.136	ug/L	94
39) 1,1,1-Trichloroethane	5.301	97	14584	2.058	ug/L	99
41) 2-Butanone	5.415	43	1539	1.961	ug/L	89
42) 1,1-Dichloropropene	5.425	75	11850	2.016	ug/L	99
44) Benzene	5.673	78	36748	2.176	ug/L	99
45) tert-Amyl methyl ether	5.790	73	20271	2.058	ug/L	100
47) 1,2-Dichloroethane	5.883	62	9597	2.077	ug/L	98
50) Methyl cyclohexane	6.265	83	12845	1.842	ug/L	98
51) Trichloroethene	6.272	95	9700	2.124	ug/L	98
53) Dibromomethane	6.716	93	3612	2.122	ug/L	96
54) 1,2-Dichloropropane	6.833	63	7798	2.066	ug/L	99
56) 2-Chloroethyl vinyl ether	7.529	63	3970	2.018	ug/L	99
57) Bromodichloromethane	6.887	83	11456	2.069	ug/L	99
60) 1,4-Dioxane	7.113	88	2866	418.316	ug/L	98
61) cis-1,3-Dichloropropene	7.592	75	13223	2.064	ug/L	100
64) Toluene	7.862	92	23413	2.147	ug/L	99
65) 4-Methyl-2-pentanone	8.313	58	1512	1.883	ug/L	96
66) Tetrachloroethene	8.306	166	11752	2.062	ug/L	99
68) trans-1,3-Dichloropropene	8.348	75	11003	1.995	ug/L	100
70) Ethyl methacrylate	8.549	69	7252	1.854	ug/L	94
71) 1,1,2-Trichloroethane	8.535	83	5363	2.041	ug/L	99
72) Chlorodibromomethane	8.743	129	7937	1.939	ug/L	98
73) 1,3-Dichloropropane	8.861	76	11077	2.074	ug/L	98
74) 1,2-Dibromoethane	9.027	107	6357	1.992	ug/L	95
76) 2-Hexanone	9.328	43	2295	1.884	ug/L	96
77) Chlorobenzene	9.680	112	26993	2.131	ug/L	96
78) Ethylbenzene	9.723	91	45827	2.106	ug/L	100
79) 1,1,1,2-Tetrachloroethane	9.766	131	9275	2.065	ug/L	90
80) p/m Xylene	9.917	106	36934	4.261	ug/L	98
81) o Xylene	10.455	106	32751	4.115	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A07.D
 Acq On : 04 Aug 2017 22:31
 Operator : VOA122:MAB
 Sample : ISTD2
 Misc : WG1029271,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 11:29:55 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.519	104	50926	3.968	ug/L	99
84) Bromoform	10.530	173	5119	1.962	ug/L	98
86) Isopropylbenzene	10.831	105	47085	2.148	ug/L	99
88) Bromobenzene	11.262	156	11163	2.157	ug/L	99
89) n-Propylbenzene	11.305	91	53432	2.123	ug/L	99
90) 1,4-Dichlorobutane	11.327	55	9491	2.111	ug/L	98
91) 1,1,2,2-Tetrachloroethane	11.380	83	6813	2.063	ug/L	98
92) 4-Ethyltoluene	11.434	105	44009	2.149	ug/L	99
93) 2-Chlorotoluene	11.467	91	35480	2.190	ug/L	98
94) 1,3,5-Trimethylbenzene	11.531	105	36850	2.130	ug/L	99
95) 1,2,3-Trichloropropane	11.531	75	5640	2.142	ug/L	96
96) trans-1,4-Dichloro-2-b...	11.585	53	1659	1.984	ug/L	98
97) 4-Chlorotoluene	11.660	91	31695	2.164	ug/L	99
98) tert-Butylbenzene	11.870	119	33666	2.147	ug/L	99
101) 1,2,4-Trimethylbenzene	11.951	105	37115	2.172	ug/L	98
102) sec-Butylbenzene	12.062	105	47344	2.086	ug/L	99
103) p-Isopropyltoluene	12.217	119	41033	2.099	ug/L	99
104) 1,3-Dichlorobenzene	12.276	146	21984	2.167	ug/L	100
105) 1,4-Dichlorobenzene	12.372	146	21969	2.189	ug/L	99
106) p-Diethylbenzene	12.586	119	22758	2.027	ug/L	99
107) n-Butylbenzene	12.645	91	34958	2.040	ug/L	99
108) 1,2-Dichlorobenzene	12.792	146	19165	2.128	ug/L	100
109) 1,2,4,5-Tetramethylben...	13.375	119	34093	2.086	ug/L	99
110) 1,2-Dibromo-3-chloropr...	13.567	155	1071	1.968	ug/L	97
111) 1,3,5-Trichlorobenzene	13.596	180	15766	2.092	ug/L	99
112) Hexachlorobutadiene	14.172	225	6441	1.873	ug/L	99
113) 1,2,4-Trichlorobenzene	14.201	180	13553	2.025	ug/L	98
114) Naphthalene	14.496	128	23910	2.003	ug/L	100
115) 1,2,3-Trichlorobenzene	14.659	180	12332	2.052	ug/L	99

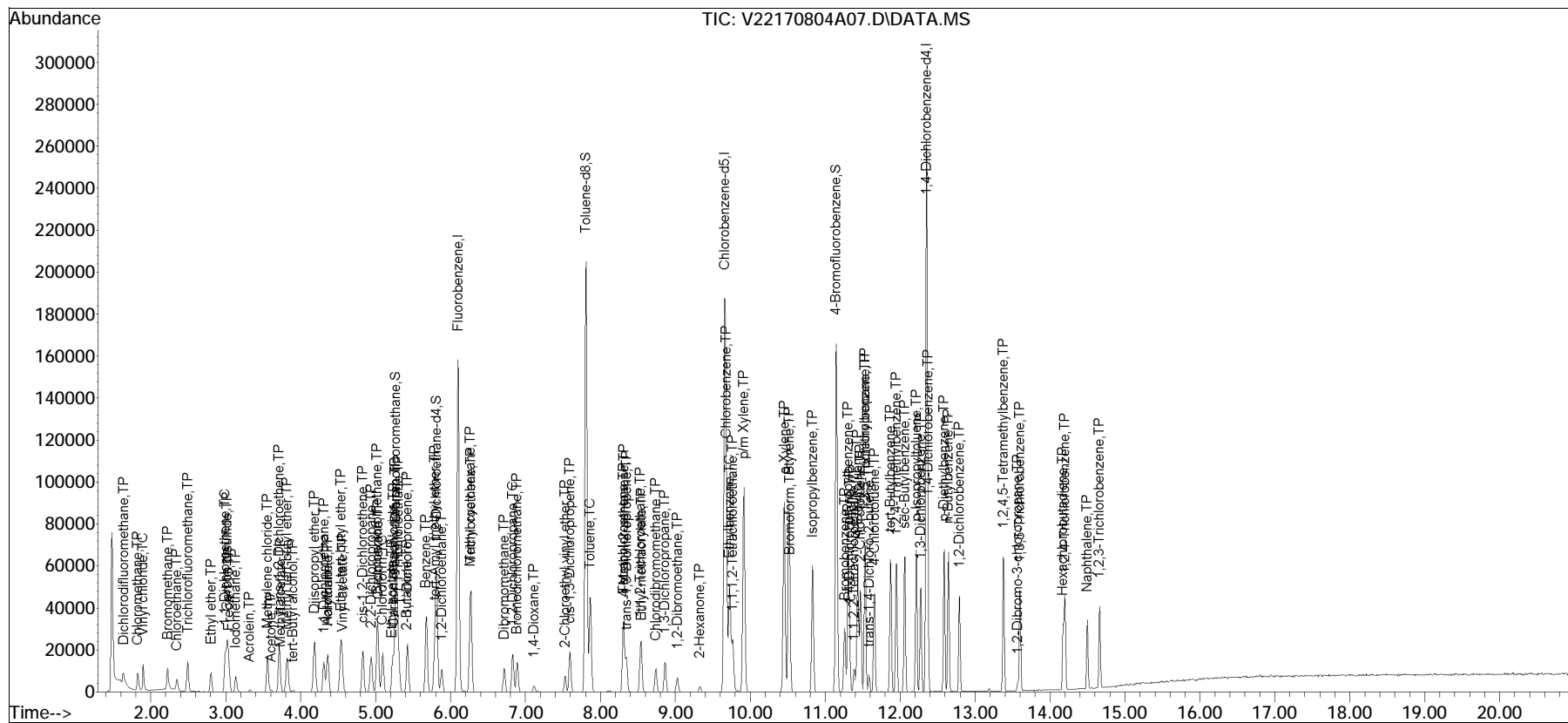
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A07.D
 Acq On : 04 Aug 2017 22:31
 Operator : VOA122:MAB
 Sample : ISTD2
 Misc : WG1029271,ICAL
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 05 11:29:55 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox70804A\V22170804A08.D•



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22170804A07.D Operator : VOA122:MAB
Date Inj'd : 8/4/2017 22:31 Instrument : VOA122
Sample : ISTD2 Quant Date : 8/5/2017 11:25 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A08.D
 Acq On : 04 Aug 2017 22:58
 Operator : VOA122:MAB
 Sample : ISTD3
 Misc : WG1029271,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 05 11:26:04 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.101	96	168241	10.000	ug/L	0.00
Standard Area 1 = 168241			Recovery = 100.00%			
62) Chlorobenzene-d5	9.658	117	139995	10.000	ug/L	0.00
Standard Area 1 = 139995			Recovery = 100.00%			
83) 1,4-Dichlorobenzene-d4	12.349	152	75642	10.000	ug/L	0.00
Standard Area 1 = 75642			Recovery = 100.00%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.270	113	43841	10.000	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
46) 1,2-Dichloroethane-d4	5.813	65	40288	10.000	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
63) Toluene-d8	7.807	98	170862	10.000	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
87) 4-Bromofluorobenzene	11.144	95	65385	10.000	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.628	85	36436	10.000	ug/L	100
3) Chloromethane	1.824	50	38392	10.000	ug/L	100
4) Vinyl chloride	1.896	62	50562	10.000	ug/L	100
5) Bromomethane	2.226	94	27197	10.000	ug/L	100
6) Chloroethane	2.350	64	29173	10.000	ug/L	100
7) Trichlorofluoromethane	2.495	101	69037	10.000	ug/L	100
8) Ethyl ether	2.804	74	20485	261.288	ug/L #	1
10) 1,1-Dichloroethene	2.990	96	40697	10.000	ug/L	100
11) Carbon disulfide	3.021	76	100845	10.000	ug/L	100
12) Freon-113	3.042	101	37378	10.000	ug/L	100
13) Iodomethane	3.134	142	49278	10.000	ug/L	100
14) Acrolein	3.330	56	5885	10.000	ug/L	100
15) Methylene chloride	3.557	84	42815	10.000	ug/L	100
17) Acetone	3.609	43	5183	10.000	ug/L	100
18) trans-1,2-Dichloroethene	3.712	96	46431	10.000	ug/L	100
19) Methyl acetate	3.733	43	14184	10.000	ug/L	100
21) Methyl tert-butyl ether	3.815	73	101959	10.000	ug/L	100
22) tert-Butyl alcohol	3.898	59	7115	50.000	ug/L	100
24) Diisopropyl ether	4.187	45	109742	10.000	ug/L	100
25) 1,1-Dichloroethane	4.311	63	74906	10.000	ug/L	100
26) Halothane	4.362	117	36317	10.000	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A08.D
 Acq On : 04 Aug 2017 22:58
 Operator : VOA122:MAB
 Sample : ISTD3
 Misc : WG1029271,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 05 11:26:04 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Acrylonitrile	4.362	53	8167	10.000	ug/L	100
28) Ethyl tert-butyl ether	4.538	59	111778	10.000	ug/L	100
29) Vinyl acetate	4.548	43	69193	10.000	ug/L	100
30) cis-1,2-Dichloroethene	4.827	96	50829	10.000	ug/L	100
31) 2,2-Dichloropropane	4.940	77	65402	10.000	ug/L	100
32) Bromochloromethane	5.023	128	21971	10.000	ug/L	100
33) Cyclohexane	5.033	56	65924	10.000	ug/L	100
34) Chloroform	5.095	83	78201	10.000	ug/L	100
35) Ethyl acetate	5.219	43	21212	10.000	ug/L	100
36) Carbon tetrachloride	5.239	117	66068	10.000	ug/L	100
37) Tetrahydrofuran	5.260	42	7665	10.000	ug/L	100
39) 1,1,1-Trichloroethane	5.301	97	74042	10.000	ug/L	100
41) 2-Butanone	5.404	43	8200	10.000	ug/L	100
42) 1,1-Dichloropropene	5.425	75	61400	10.000	ug/L	100
44) Benzene	5.681	78	176461	10.000	ug/L	100
45) tert-Amyl methyl ether	5.790	73	102924	10.000	ug/L	100
47) 1,2-Dichloroethane	5.883	62	48279	10.000	ug/L	100
50) Methyl cyclohexane	6.264	83	72856	10.000	ug/L	100
51) Trichloroethene	6.272	95	47719	10.000	ug/L	100
53) Dibromomethane	6.716	93	17785	10.000	ug/L	100
54) 1,2-Dichloropropane	6.833	63	39428	10.000	ug/L	100
56) 2-Chloroethyl vinyl ether	7.529	63	20551	10.000	ug/L	100
57) Bromodichloromethane	6.887	83	57852	10.000	ug/L	100
60) 1,4-Dioxane	7.113	88	3579	500.000	ug/L	100
61) cis-1,3-Dichloropropene	7.592	75	66946	10.000	ug/L	100
64) Toluene	7.862	92	114106	10.000	ug/L	100
65) 4-Methyl-2-pentanone	8.313	58	8402	10.000	ug/L	100
66) Tetrachloroethene	8.306	166	59627	10.000	ug/L	100
68) trans-1,3-Dichloropropene	8.348	75	57707	10.000	ug/L	100
70) Ethyl methacrylate	8.549	69	40932	10.000	ug/L	100
71) 1,1,2-Trichloroethane	8.535	83	27499	10.000	ug/L	100
72) Chlorodibromomethane	8.743	129	42823	10.000	ug/L	100
73) 1,3-Dichloropropane	8.861	76	55874	10.000	ug/L	100
74) 1,2-Dibromoethane	9.027	107	33385	10.000	ug/L	100
76) 2-Hexanone	9.328	43	12748	10.000	ug/L	100
77) Chlorobenzene	9.680	112	132556	10.000	ug/L	100
78) Ethylbenzene	9.723	91	227660	10.000	ug/L	100
79) 1,1,1,2-Tetrachloroethane	9.766	131	46994	10.000	ug/L	100
80) p/m Xylene	9.916	106	181396	20.000	ug/L	100
81) o Xylene	10.455	106	166548	20.000	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A08.D
 Acq On : 04 Aug 2017 22:58
 Operator : VOA122:MAB
 Sample : ISTD3
 Misc : WG1029271,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 05 11:26:04 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.519	104	268555	20.000	ug/L	100
84) Bromoform	10.530	173	28560	10.000	ug/L	100
86) Isopropylbenzene	10.831	105	240029	10.000	ug/L	100
88) Bromobenzene	11.262	156	56673	10.000	ug/L	100
89) n-Propylbenzene	11.305	91	275578	10.000	ug/L	100
90) 1,4-Dichlorobutane	11.326	55	49227	10.000	ug/L	100
91) 1,1,2,2-Tetrachloroethane	11.380	83	36162	10.000	ug/L	100
92) 4-Ethyltoluene	11.434	105	224270	10.000	ug/L	100
93) 2-Chlorotoluene	11.466	91	177368	10.000	ug/L	100
94) 1,3,5-Trimethylbenzene	11.531	105	189438	10.000	ug/L	100
95) 1,2,3-Trichloropropane	11.531	75	28833	10.000	ug/L	100
96) trans-1,4-Dichloro-2-b...	11.585	53	9156	10.000	ug/L	100
97) 4-Chlorotoluene	11.649	91	160338	10.000	ug/L	100
98) tert-Butylbenzene	11.870	119	171696	10.000	ug/L	100
101) 1,2,4-Trimethylbenzene	11.951	105	187124	10.000	ug/L	100
102) sec-Butylbenzene	12.062	105	248466	10.000	ug/L	100
103) p-Isopropyltoluene	12.217	119	214067	10.000	ug/L	100
104) 1,3-Dichlorobenzene	12.276	146	111057	10.000	ug/L	100
105) 1,4-Dichlorobenzene	12.372	146	109878	10.000	ug/L	100
106) p-Diethylbenzene	12.586	119	122922	10.000	ug/L	100
107) n-Butylbenzene	12.645	91	187591	10.000	ug/L	100
108) 1,2-Dichlorobenzene	12.792	146	98598	10.000	ug/L	100
109) 1,2,4,5-Tetramethylben...	13.382	119	178926	10.000	ug/L	100
110) 1,2-Dibromo-3-chloropr...	13.567	155	5959	10.000	ug/L	100
111) 1,3,5-Trichlorobenzene	13.596	180	82525	10.000	ug/L	100
112) Hexachlorobutadiene	14.172	225	37656	10.000	ug/L	100
113) 1,2,4-Trichlorobenzene	14.201	180	73282	10.000	ug/L	100
114) Naphthalene	14.496	128	130728	10.000	ug/L	100
115) 1,2,3-Trichlorobenzene	14.659	180	65786	10.000	ug/L	100

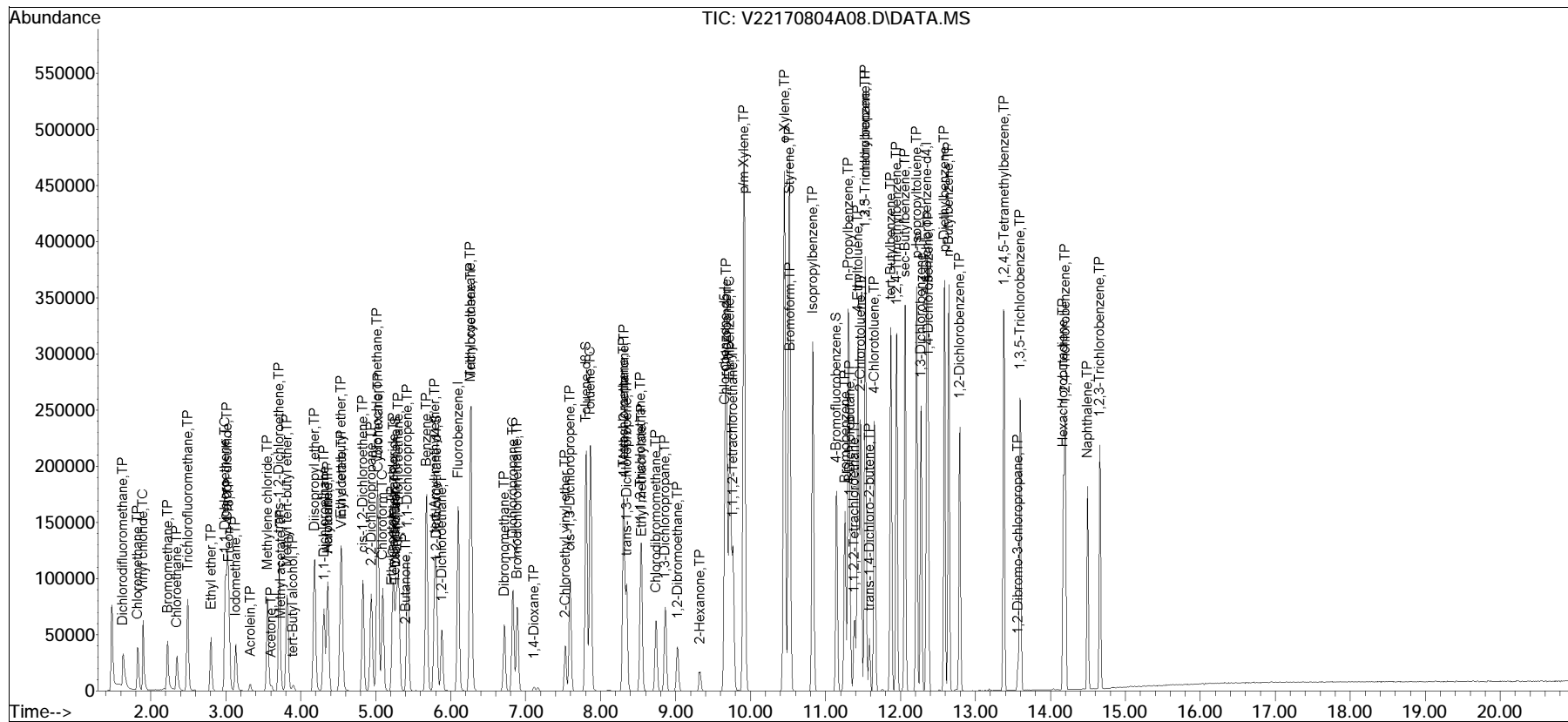
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A08.D
 Acq On : 04 Aug 2017 22:58
 Operator : VOA122:MAB
 Sample : ISTD13
 Misc : WG1029271,ICAL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 05 11:26:04 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox70804A\V22170804A08.D•



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22170804A08.D Operator : VOA122:MAB
Date Inj'd : 8/4/2017 22:58 Instrument : VOA122
Sample : ISTD3 Quant Date : 8/5/2017 11:25 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A09.D
 Acq On : 04 Aug 2017 23:26
 Operator : VOA122:MAB
 Sample : ISTD4
 Misc : WG1029271,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 11:30:14 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.101	96	166029	10.000	ug/L	0.00
Standard Area 1 = 168241			Recovery =	98.69%		
62) Chlorobenzene-d5	9.658	117	142192	10.000	ug/L	0.00
Standard Area 1 = 139995			Recovery =	101.57%		
83) 1,4-Dichlorobenzene-d4	12.350	152	78787	10.000	ug/L	0.00
Standard Area 1 = 75642			Recovery =	104.16%		
System Monitoring Compounds						
38) Dibromofluoromethane	5.270	113	43400	10.031	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.31%		
46) 1,2-Dichloroethane-d4	5.813	65	40092	10.084	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.84%		
63) Toluene-d8	7.807	98	169909	9.791	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.91%		
87) 4-Bromofluorobenzene	11.144	95	66497	9.764	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.64%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.628	85	108068	30.055	ug/L	99
3) Chloromethane	1.824	50	114667	30.265	ug/L	98
4) Vinyl chloride	1.896	62	154031	30.870	ug/L	100
5) Bromomethane	2.227	94	90079	33.562	ug/L	99
6) Chloroethane	2.350	64	90292	31.363	ug/L	100
7) Trichlorofluoromethane	2.495	101	212550	31.198	ug/L	100
8) Ethyl ether	2.804	74	63799	824.604	ug/L #	1
10) 1,1-Dichloroethene	2.990	96	126143	31.409	ug/L	100
11) Carbon disulfide	3.021	76	309883	31.138	ug/L	100
12) Freon-113	3.042	101	115077	31.198	ug/L	99
13) Iodomethane	3.135	142	168574	34.665	ug/L	99
14) Acrolein	3.320	56	18741	32.270	ug/L	99
15) Methylene chloride	3.558	84	130964	30.996	ug/L	99
17) Acetone	3.609	43	16569	32.394	ug/L	98
18) trans-1,2-Dichloroethene	3.712	96	144293	31.491	ug/L	99
19) Methyl acetate	3.733	43	44075	31.488	ug/L	99
21) Methyl tert-butyl ether	3.816	73	314996	31.306	ug/L	99
22) tert-Butyl alcohol	3.898	59	22650	161.291	ug/L	99
24) Diisopropyl ether	4.187	45	341851	31.565	ug/L	100
25) 1,1-Dichloroethane	4.311	63	231080	31.260	ug/L	100
26) Halothane	4.362	117	111114	31.003	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A09.D
 Acq On : 04 Aug 2017 23:26
 Operator : VOA122:MAB
 Sample : ISTD4
 Misc : WG1029271,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 11:30:14 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Acrylonitrile	4.362	53	25188	31.252	ug/L	98
28) Ethyl tert-butyl ether	4.538	59	344653	31.245	ug/L	98
29) Vinyl acetate	4.548	43	220169	32.243	ug/L	99
30) cis-1,2-Dichloroethene	4.827	96	155825	31.065	ug/L	100
31) 2,2-Dichloropropane	4.940	77	197526	30.604	ug/L	99
32) Bromochloromethane	5.023	128	67722	31.234	ug/L	98
33) Cyclohexane	5.033	56	201729	31.008	ug/L	98
34) Chloroform	5.095	83	237008	30.711	ug/L	100
35) Ethyl acetate	5.219	43	67334	32.166	ug/L	99
36) Carbon tetrachloride	5.239	117	205787	31.563	ug/L	99
37) Tetrahydrofuran	5.260	42	23285	30.783	ug/L	93
39) 1,1,1-Trichloroethane	5.301	97	229059	31.349	ug/L	99
41) 2-Butanone	5.404	43	25644	31.690	ug/L	98
42) 1,1-Dichloropropene	5.425	75	189771	31.319	ug/L	100
44) Benzene	5.681	78	587436	33.733	ug/L	97
45) tert-Amyl methyl ether	5.790	73	317300	31.239	ug/L	100
47) 1,2-Dichloroethane	5.883	62	146849	30.822	ug/L	99
50) Methyl cyclohexane	6.265	83	227809	31.685	ug/L	100
51) Trichloroethene	6.272	95	148417	31.517	ug/L	99
53) Dibromomethane	6.716	93	54399	30.995	ug/L	98
54) 1,2-Dichloropropane	6.833	63	121659	31.267	ug/L	99
56) 2-Chloroethyl vinyl ether	7.529	63	63374	31.248	ug/L	100
57) Bromodichloromethane	6.887	83	181840	31.851	ug/L	100
60) 1,4-Dioxane	7.113	88	4907	694.660	ug/L #	93
61) cis-1,3-Dichloropropene	7.592	75	209835	31.762	ug/L	100
64) Toluene	7.862	92	355695	30.691	ug/L	99
65) 4-Methyl-2-pentanone	8.313	58	26456	31.001	ug/L	100
66) Tetrachloroethene	8.306	166	185928	30.700	ug/L	100
68) trans-1,3-Dichloropropene	8.348	75	180348	30.769	ug/L	99
70) Ethyl methacrylate	8.549	69	130931	31.493	ug/L	99
71) 1,1,2-Trichloroethane	8.535	83	85636	30.660	ug/L	99
72) Chlorodibromomethane	8.743	129	135693	31.197	ug/L	100
73) 1,3-Dichloropropane	8.861	76	172158	30.336	ug/L	100
74) 1,2-Dibromoethane	9.027	107	103809	30.614	ug/L	99
76) 2-Hexanone	9.328	43	40767	31.485	ug/L	99
77) Chlorobenzene	9.680	112	412064	30.606	ug/L	99
78) Ethylbenzene	9.723	91	704284	30.458	ug/L	99
79) 1,1,1,2-Tetrachloroethane	9.766	131	147043	30.806	ug/L	98
80) p/m Xylene	9.917	106	568593	61.722	ug/L	99
81) o Xylene	10.455	106	523867	61.937	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A09.D
 Acq On : 04 Aug 2017 23:26
 Operator : VOA122:MAB
 Sample : ISTD4
 Misc : WG1029271,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 11:30:14 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.519	104	866398	63.526	ug/L	100
84) Bromoform	10.530	173	93503	31.432	ug/L	99
86) Isopropylbenzene	10.831	105	751646	30.065	ug/L	100
88) Bromobenzene	11.262	156	177834	30.126	ug/L	100
89) n-Propylbenzene	11.305	91	870914	30.342	ug/L	99
90) 1,4-Dichlorobutane	11.327	55	152850	29.811	ug/L	99
91) 1,1,2,2-Tetrachloroethane	11.391	83	113458	30.123	ug/L	100
92) 4-Ethyltoluene	11.434	105	700744	29.998	ug/L	100
93) 2-Chlorotoluene	11.467	91	554360	30.007	ug/L	99
94) 1,3,5-Trimethylbenzene	11.531	105	597536	30.283	ug/L	100
95) 1,2,3-Trichloropropane	11.531	75	91011	30.305	ug/L	99
96) trans-1,4-Dichloro-2-b...	11.585	53	29229	30.649	ug/L	98
97) 4-Chlorotoluene	11.660	91	502845	30.110	ug/L	100
98) tert-Butylbenzene	11.870	119	544415	30.442	ug/L	100
101) 1,2,4-Trimethylbenzene	11.951	105	595593	30.558	ug/L	99
102) sec-Butylbenzene	12.062	105	785360	30.347	ug/L	100
103) p-Isopropyltoluene	12.217	119	682795	30.623	ug/L	100
104) 1,3-Dichlorobenzene	12.276	146	352182	30.446	ug/L	100
105) 1,4-Dichlorobenzene	12.372	146	342053	29.888	ug/L	100
106) p-Diethylbenzene	12.586	119	390824	30.525	ug/L	99
107) n-Butylbenzene	12.645	91	602317	30.826	ug/L	100
108) 1,2-Dichlorobenzene	12.792	146	315532	30.724	ug/L	99
109) 1,2,4,5-Tetramethylben...	13.382	119	580878	31.169	ug/L	100
110) 1,2-Dibromo-3-chloropr...	13.567	155	19842	31.968	ug/L	99
111) 1,3,5-Trichlorobenzene	13.596	180	268307	31.214	ug/L	98
112) Hexachlorobutadiene	14.172	225	122512	31.236	ug/L	98
113) 1,2,4-Trichlorobenzene	14.201	180	232662	30.482	ug/L	100
114) Naphthalene	14.496	128	420441	30.878	ug/L	100
115) 1,2,3-Trichlorobenzene	14.666	180	209570	30.585	ug/L	100

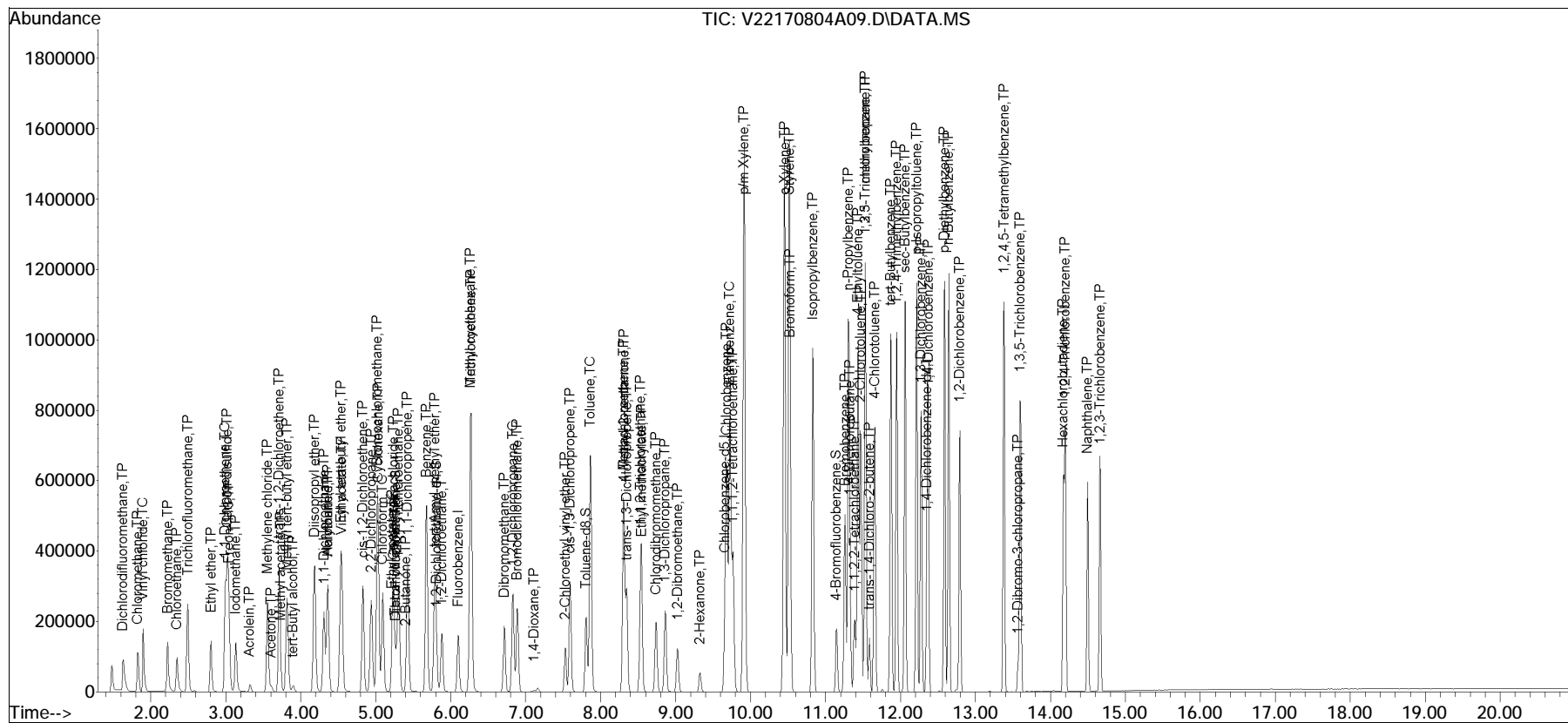
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A09.D
 Acq On : 04 Aug 2017 23:26
 Operator : VOA122:MAB
 Sample : ISTD4
 Misc : WG1029271,ICAL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 05 11:30:14 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox70804A\V22170804A08.D•



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22170804A09.D Operator : VOA122:MAB
Date Inj'd : 8/4/2017 23:26 Instrument : VOA122
Sample : ISTD4 Quant Date : 8/5/2017 11:26 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A10.D
 Acq On : 04 Aug 2017 23:54
 Operator : VOA122:MAB
 Sample : ISTD6
 Misc : WG1029271,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 05 11:30:26 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.101	96	169073	10.000	ug/L	0.00	
Standard Area 1 = 168241			Recovery =	100.49%			
62) Chlorobenzene-d5	9.658	117	147472	10.000	ug/L	0.00	
Standard Area 1 = 139995			Recovery =	105.34%			
83) 1,4-Dichlorobenzene-d4	12.357	152	79306	10.000	ug/L	0.00	
Standard Area 1 = 75642			Recovery =	104.84%			
System Monitoring Compounds							
38) Dibromofluoromethane	5.270	113	43725	9.924	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.24%			
46) 1,2-Dichloroethane-d4	5.813	65	40548	10.015	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.15%			
63) Toluene-d8	7.807	98	173985	9.667	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.67%			
87) 4-Bromofluorobenzene	11.144	95	67637	9.867	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.67%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.628	85	276528	75.521	ug/L		99
3) Chloromethane	1.824	50	298806	77.447	ug/L		99
4) Vinyl chloride	1.896	62	395385	77.813	ug/L		99
5) Bromomethane	2.227	94	262191	95.930	ug/L		99
6) Chloroethane	2.350	64	235501	80.328	ug/L		100
7) Trichlorofluoromethane	2.495	101	549425	79.193	ug/L		100
8) Ethyl ether	2.804	74	165938	2106.141	ug/L	#	1
10) 1,1-Dichloroethene	2.990	96	332080	81.197	ug/L		99
11) Carbon disulfide	3.021	76	808884	79.816	ug/L		99
12) Freon-113	3.042	101	298232	79.395	ug/L		99
13) Iodomethane	3.134	142	459783	92.845	ug/L		99
14) Acrolein	3.320	56	47899	80.991	ug/L		98
15) Methylene chloride	3.558	84	343121	79.746	ug/L		99
17) Acetone	3.609	43	40940	78.600	ug/L		93
18) trans-1,2-Dichloroethene	3.712	96	378857	81.194	ug/L		99
19) Methyl acetate	3.723	43	109477	76.804	ug/L		99
21) Methyl tert-butyl ether	3.815	73	804057	78.473	ug/L		98
22) tert-Butyl alcohol	3.898	59	52896	369.892	ug/L		96
24) Diisopropyl ether	4.187	45	882291	80.001	ug/L		99
25) 1,1-Dichloroethane	4.311	63	598803	79.547	ug/L		100
26) Halothane	4.362	117	291292	79.813	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A10.D
 Acq On : 04 Aug 2017 23:54
 Operator : VOA122:MAB
 Sample : ISTD6
 Misc : WG1029271,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 05 11:30:26 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Acrylonitrile	4.362	53	63479	77.344	ug/L	98
28) Ethyl tert-butyl ether	4.538	59	883856	78.683	ug/L	99
29) Vinyl acetate	4.548	43	559537	80.468	ug/L	100
30) cis-1,2-Dichloroethene	4.827	96	404829	79.253	ug/L	100
31) 2,2-Dichloropropane	4.940	77	503261	76.570	ug/L	98
32) Bromochloromethane	5.023	128	173942	78.779	ug/L	98
33) Cyclohexane	5.033	56	517740	78.149	ug/L	99
34) Chloroform	5.095	83	613452	78.060	ug/L	100
35) Ethyl acetate	5.219	43	165352	77.569	ug/L	99
36) Carbon tetrachloride	5.229	117	533754	80.391	ug/L	99
37) Tetrahydrofuran	5.250	42	56989	73.984	ug/L	94
39) 1,1,1-Trichloroethane	5.301	97	591494	79.493	ug/L	99
41) 2-Butanone	5.404	43	63467	77.018	ug/L	93
42) 1,1-Dichloropropene	5.425	75	491772	79.699	ug/L	99
44) Benzene	5.681	78	1515457	85.458	ug/L	97
45) tert-Amyl methyl ether	5.790	73	806812	78.003	ug/L	99
47) 1,2-Dichloroethane	5.883	62	371527	76.575	ug/L	99
50) Methyl cyclohexane	6.265	83	590510	80.653	ug/L	99
51) Trichloroethene	6.272	95	389968	81.320	ug/L	99
53) Dibromomethane	6.716	93	136216	76.213	ug/L	99
54) 1,2-Dichloropropane	6.833	63	319746	80.697	ug/L	99
56) 2-Chloroethyl vinyl ether	7.529	63	159657	77.306	ug/L	99
57) Bromodichloromethane	6.887	83	478610	82.323	ug/L	100
60) 1,4-Dioxane	7.113	88	5685	790.308	ug/L #	92
61) cis-1,3-Dichloropropene	7.592	75	550264	81.791	ug/L	99
64) Toluene	7.862	92	932795	77.603	ug/L	98
65) 4-Methyl-2-pentanone	8.313	58	68439	77.326	ug/L	99
66) Tetrachloroethene	8.306	166	489647	77.955	ug/L	99
68) trans-1,3-Dichloropropene	8.348	75	472864	77.788	ug/L	98
70) Ethyl methacrylate	8.549	69	342125	79.346	ug/L	99
71) 1,1,2-Trichloroethane	8.535	83	222269	76.730	ug/L	99
72) Chlorodibromomethane	8.743	129	360550	79.927	ug/L	100
73) 1,3-Dichloropropane	8.861	76	444289	75.485	ug/L	99
74) 1,2-Dibromoethane	9.027	107	296818	84.400	ug/L	99
76) 2-Hexanone	9.328	43	102768	76.528	ug/L	99
77) Chlorobenzene	9.680	112	1089449	78.021	ug/L	99
78) Ethylbenzene	9.723	91	1862601	77.667	ug/L	99
79) 1,1,1,2-Tetrachloroethane	9.766	131	385546	77.882	ug/L	98
80) p/m Xylene	9.917	106	1493312	156.299	ug/L	98
81) o Xylene	10.455	106	1384738	157.856	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A10.D
 Acq On : 04 Aug 2017 23:54
 Operator : VOA122:MAB
 Sample : ISTD6
 Misc : WG1029271,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 05 11:30:26 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.519	104	2308807	163.225	ug/L	100
84) Bromoform	10.530	173	249338	83.270	ug/L	99
86) Isopropylbenzene	10.831	105	1953151	77.612	ug/L	99
88) Bromobenzene	11.262	156	466848	78.570	ug/L	100
89) n-Propylbenzene	11.305	91	2256143	78.087	ug/L	99
90) 1,4-Dichlorobutane	11.327	55	390005	75.566	ug/L	99
91) 1,1,2,2-Tetrachloroethane	11.391	83	283170	74.688	ug/L	100
92) 4-Ethyltoluene	11.434	105	1774860	75.483	ug/L	99
93) 2-Chlorotoluene	11.477	91	1413936	76.035	ug/L	99
94) 1,3,5-Trimethylbenzene	11.531	105	1536572	77.365	ug/L	100
95) 1,2,3-Trichloropropane	11.531	75	227741	75.337	ug/L	100
96) trans-1,4-Dichloro-2-b...	11.585	53	73728	76.804	ug/L	96
97) 4-Chlorotoluene	11.660	91	1298657	77.253	ug/L	99
98) tert-Butylbenzene	11.870	119	1407121	78.168	ug/L	100
101) 1,2,4-Trimethylbenzene	11.951	105	1546046	78.804	ug/L	100
102) sec-Butylbenzene	12.062	105	2002454	76.869	ug/L	99
103) p-Isopropyltoluene	12.217	119	1757863	78.324	ug/L	99
104) 1,3-Dichlorobenzene	12.276	146	917656	78.812	ug/L	100
105) 1,4-Dichlorobenzene	12.372	146	898298	77.977	ug/L	99
106) p-Diethylbenzene	12.586	119	1031259	80.019	ug/L	99
107) n-Butylbenzene	12.645	91	1540081	78.305	ug/L	100
108) 1,2-Dichlorobenzene	12.792	146	822375	79.553	ug/L	100
109) 1,2,4,5-Tetramethylben...	13.382	119	1528356	81.472	ug/L	99
110) 1,2-Dibromo-3-chloropr...	13.567	155	51243	82.020	ug/L	99
111) 1,3,5-Trichlorobenzene	13.604	180	709153	81.962	ug/L	99
112) Hexachlorobutadiene	14.172	225	324559	82.208	ug/L	99
113) 1,2,4-Trichlorobenzene	14.201	180	622417	81.010	ug/L	100
114) Naphthalene	14.496	128	1081128	78.880	ug/L	100
115) 1,2,3-Trichlorobenzene	14.666	180	551230	79.920	ug/L	100

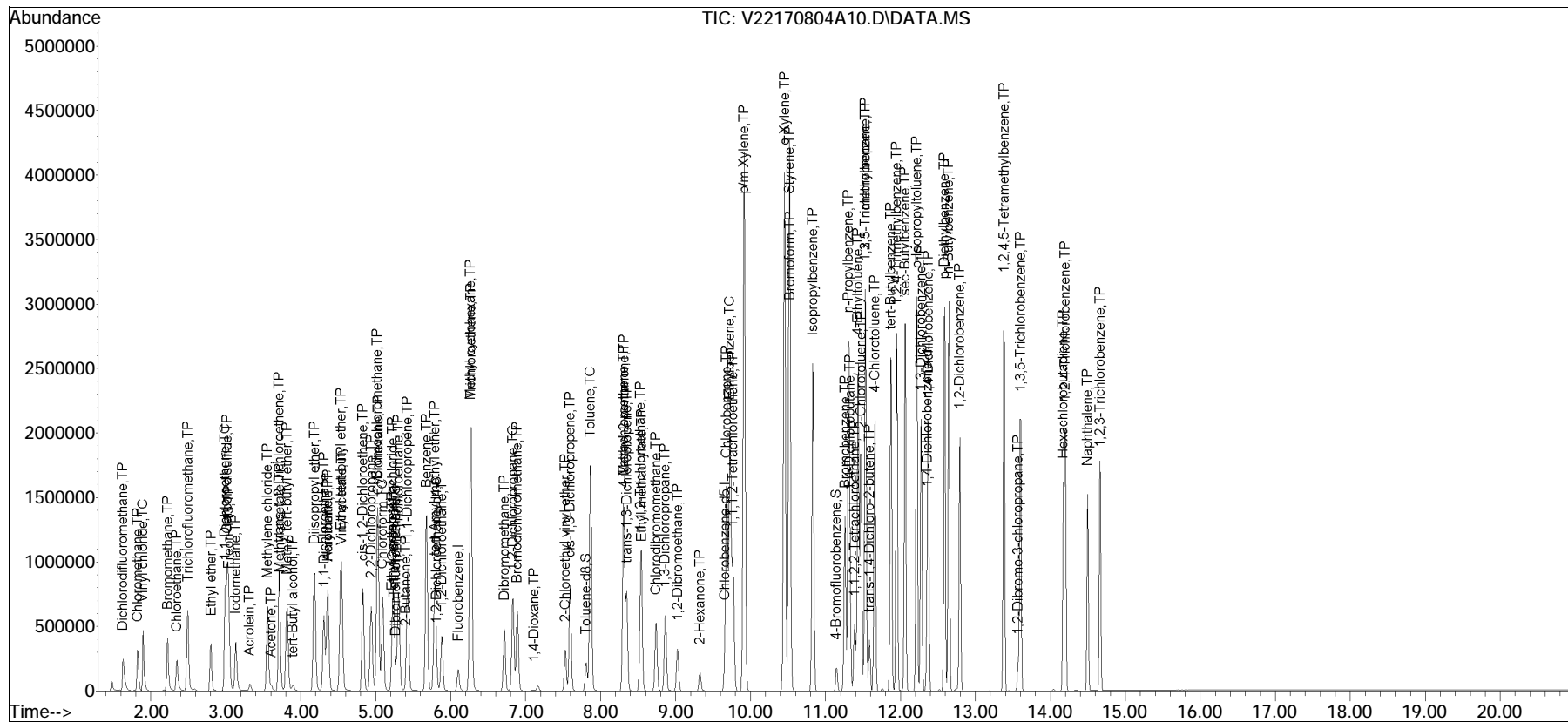
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A10.D
 Acq On : 04 Aug 2017 23:54
 Operator : VOA122:MAB
 Sample : ISTD16
 Misc : WG1029271,ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 05 11:30:26 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox70804A\V22170804A08.D•



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22170804A10.D Operator : VOA122:MAB
Date Inj'd : 8/4/2017 23:54 Instrument : VOA122
Sample : ISTD6 Quant Date : 8/5/2017 11:26 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A11.D
 Acq On : 05 Aug 2017 00:21
 Operator : VOA122:MAB
 Sample : ISTD18
 Misc : WG1029271,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 05 11:30:34 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.101	96	177883	10.000	ug/L	0.00
Standard Area 1 = 168241			Recovery = 105.73%			
62) Chlorobenzene-d5	9.658	117	155537	10.000	ug/L	0.00
Standard Area 1 = 139995			Recovery = 111.10%			
83) 1,4-Dichlorobenzene-d4	12.357	152	82587	10.000	ug/L	0.00
Standard Area 1 = 75642			Recovery = 109.18%			
System Monitoring Compounds						
38) Dibromofluoromethane	5.270	113	46198	9.966	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.66%			
46) 1,2-Dichloroethane-d4	5.813	65	42335	9.939	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.39%			
63) Toluene-d8	7.807	98	184270	9.707	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.07%			
87) 4-Bromofluorobenzene	11.144	95	70728	9.908	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.08%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.628	85	451920	117.308	ug/L	99
3) Chloromethane	1.824	50	473400	116.623	ug/L	99
4) Vinyl chloride	1.896	62	633538	118.507	ug/L	99
5) Bromomethane	2.227	94	437327	152.084	ug/L	98
6) Chloroethane	2.350	64	383001	124.170	ug/L	100
7) Trichlorofluoromethane	2.495	101	909325	124.576	ug/L	100
8) Ethyl ether	2.804	74	268301	3236.709	ug/L #	1
10) 1,1-Dichloroethene	2.990	96	551109	128.077	ug/L	98
11) Carbon disulfide	3.021	76	1347341	126.363	ug/L	99
12) Freon-113	3.042	101	500202	126.569	ug/L	99
13) Iodomethane	3.135	142	731525	140.402	ug/L	99
14) Acrolein	3.320	56	76864	123.530	ug/L	99
15) Methylene chloride	3.558	84	549696	121.429	ug/L	98
17) Acetone	3.609	43	64453	117.614	ug/L	92
18) trans-1,2-Dichloroethene	3.712	96	619657	126.224	ug/L	98
19) Methyl acetate	3.733	43	172247	114.855	ug/L	97
21) Methyl tert-butyl ether	3.816	73	1278234	118.572	ug/L	98
22) tert-Butyl alcohol	3.898	59	86925	577.746	ug/L	95
24) Diisopropyl ether	4.187	45	1388791	119.691	ug/L	99
25) 1,1-Dichloroethane	4.311	63	945312	119.359	ug/L	100
26) Halothane	4.362	117	476597	124.119	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A11.D
 Acq On : 05 Aug 2017 00:21
 Operator : VOA122:MAB
 Sample : ISTD18
 Misc : WG1029271,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 05 11:30:34 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Acrylonitrile	4.362	53	99403	115.116	ug/L	97
28) Ethyl tert-butyl ether	4.538	59	1398722	118.351	ug/L	98
29) Vinyl acetate	4.548	43	881666	120.515	ug/L	99
30) cis-1,2-Dichloroethene	4.827	96	646753	120.344	ug/L	99
31) 2,2-Dichloropropane	4.940	77	804921	116.402	ug/L	97
32) Bromochloromethane	5.023	128	273788	117.859	ug/L	96
33) Cyclohexane	5.033	56	851949	122.227	ug/L	98
34) Chloroform	5.095	83	978597	118.356	ug/L	99
35) Ethyl acetate	5.219	43	263897	117.666	ug/L	99
36) Carbon tetrachloride	5.239	117	880734	126.081	ug/L	99
37) Tetrahydrofuran	5.250	42	89851	110.868	ug/L	94
39) 1,1,1-Trichloroethane	5.301	97	964493	123.202	ug/L	99
41) 2-Butanone	5.404	43	100747	116.203	ug/L	92
42) 1,1-Dichloropropene	5.425	75	803759	123.810	ug/L	99
44) Benzene	5.681	78	2405196	128.914	ug/L	98
45) tert-Amyl methyl ether	5.790	73	1284435	118.030	ug/L	99
47) 1,2-Dichloroethane	5.883	62	585820	114.763	ug/L	99
50) Methyl cyclohexane	6.265	83	988191	128.284	ug/L	98
51) Trichloroethene	6.272	95	640248	126.898	ug/L	100
53) Dibromomethane	6.716	93	220049	117.021	ug/L	99
54) 1,2-Dichloropropane	6.833	63	504681	121.062	ug/L	99
56) 2-Chloroethyl vinyl ether	7.529	63	255244	117.468	ug/L	98
57) Bromodichloromethane	6.887	83	763028	124.744	ug/L	100
60) 1,4-Dioxane	7.113	88	8909	1177.158	ug/L #	87
61) cis-1,3-Dichloropropene	7.592	75	874340	123.525	ug/L	98
64) Toluene	7.869	92	1507748	118.932	ug/L	97
65) 4-Methyl-2-pentanone	8.313	58	111644	119.600	ug/L	96
66) Tetrachloroethene	8.306	166	812165	122.597	ug/L	99
68) trans-1,3-Dichloropropene	8.348	75	752634	117.391	ug/L	97
70) Ethyl methacrylate	8.549	69	552416	121.474	ug/L	99
71) 1,1,2-Trichloroethane	8.535	83	353617	115.743	ug/L	100
72) Chlorodibromomethane	8.743	129	577353	121.351	ug/L	100
73) 1,3-Dichloropropane	8.868	76	705893	113.712	ug/L	99
74) 1,2-Dibromoethane	9.027	107	475246	128.129	ug/L	100
76) 2-Hexanone	9.328	43	165180	116.626	ug/L	98
77) Chlorobenzene	9.680	112	1744300	118.441	ug/L	99
78) Ethylbenzene	9.723	91	2956063	116.871	ug/L	98
79) 1,1,1,2-Tetrachloroethane	9.766	131	613354	117.476	ug/L	98
80) p/m Xylene	9.917	106	2389565	237.137	ug/L	95
81) o Xylene	10.455	106	2212756	239.168	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A11.D
 Acq On : 05 Aug 2017 00:21
 Operator : VOA122:MAB
 Sample : ISTD18
 Misc : WG1029271,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 05 11:30:34 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.519	104	3608902	241.908	ug/L	100
84) Bromoform	10.530	173	402577	129.105	ug/L	100
86) Isopropylbenzene	10.832	105	3101329	118.341	ug/L	99
88) Bromobenzene	11.262	156	744932	120.390	ug/L	100
89) n-Propylbenzene	11.305	91	3538388	117.601	ug/L	98
90) 1,4-Dichlorobutane	11.327	55	606351	112.816	ug/L	98
91) 1,1,2,2-Tetrachloroethane	11.391	83	442762	112.142	ug/L	99
92) 4-Ethyltoluene	11.434	105	2798163	114.276	ug/L	98
93) 2-Chlorotoluene	11.477	91	2212385	114.245	ug/L	98
94) 1,3,5-Trimethylbenzene	11.531	105	2419181	116.964	ug/L	99
95) 1,2,3-Trichloropropane	11.531	75	355170	112.823	ug/L	98
96) trans-1,4-Dichloro-2-b...	11.585	53	111291	111.328	ug/L	90
97) 4-Chlorotoluene	11.660	91	2023289	115.577	ug/L	98
98) tert-Butylbenzene	11.877	119	2229793	118.948	ug/L	100
101) 1,2,4-Trimethylbenzene	11.951	105	2423513	118.623	ug/L	99
102) sec-Butylbenzene	12.062	105	3155886	116.334	ug/L	98
103) p-Isopropyltoluene	12.217	119	2764472	118.281	ug/L	98
104) 1,3-Dichlorobenzene	12.276	146	1445713	119.231	ug/L	100
105) 1,4-Dichlorobenzene	12.372	146	1427979	119.032	ug/L	99
106) p-Diethylbenzene	12.586	119	1652221	123.109	ug/L	99
107) n-Butylbenzene	12.645	91	2440572	119.160	ug/L	99
108) 1,2-Dichlorobenzene	12.792	146	1301766	120.925	ug/L	100
109) 1,2,4,5-Tetramethylben...	13.382	119	2431098	124.446	ug/L	99
110) 1,2-Dibromo-3-chloropr...	13.574	155	82297	126.492	ug/L	100
111) 1,3,5-Trichlorobenzene	13.604	180	1137755	126.274	ug/L	99
112) Hexachlorobutadiene	14.179	225	537875	130.827	ug/L	99
113) 1,2,4-Trichlorobenzene	14.201	180	1003062	125.367	ug/L	99
114) Naphthalene	14.496	128	1720232	120.523	ug/L	100
115) 1,2,3-Trichlorobenzene	14.666	180	883584	123.017	ug/L	99

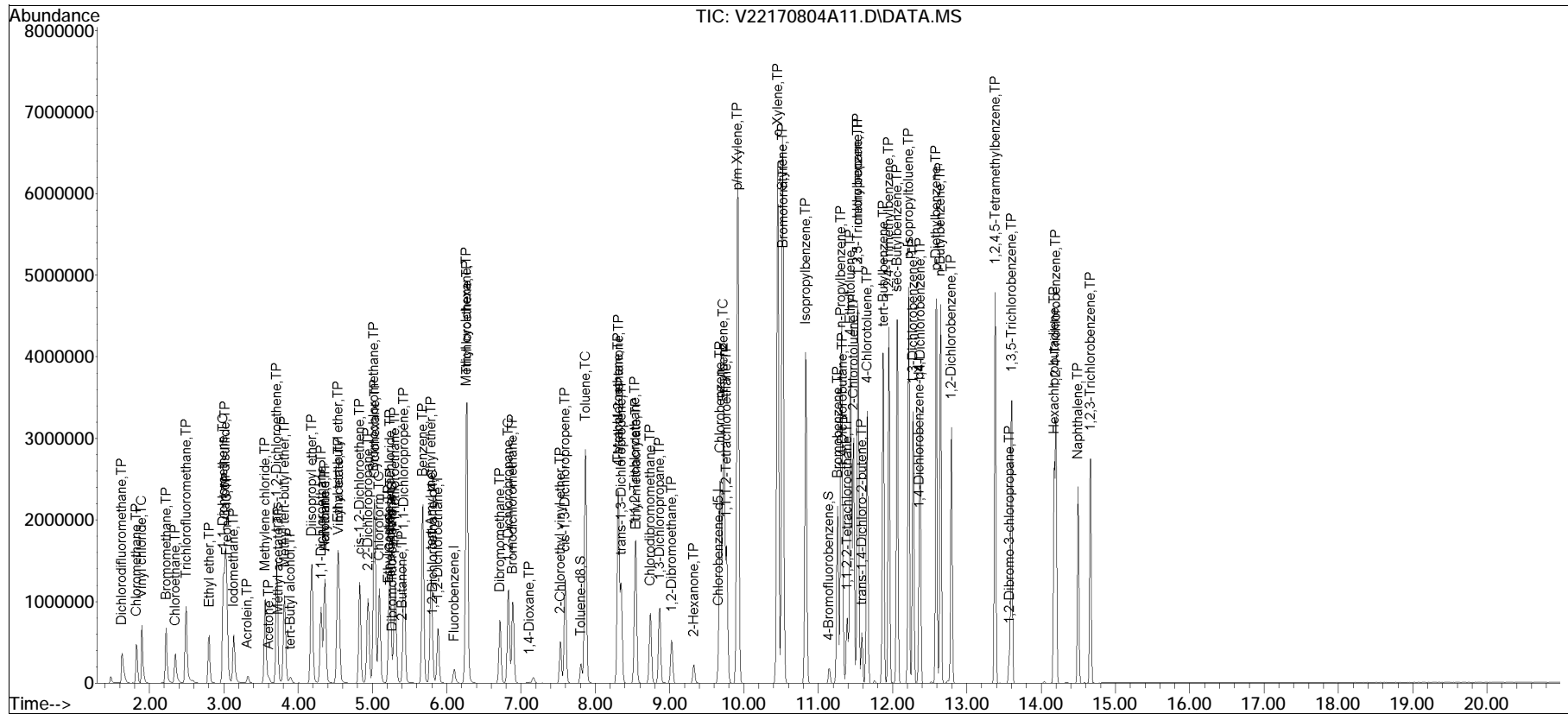
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A11.D
 Acq On : 05 Aug 2017 00:21
 Operator : VOA122:MAB
 Sample : ISTD18
 Misc : WG1029271,ICAL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 05 11:30:34 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox70804A\V22170804A08.D•



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22170804A11.D Operator : VOA122:MAB
Date Inj'd : 8/5/2017 0:21 Instrument : VOA122
Sample : ISTD8 Quant Date : 8/5/2017 11:26 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A12.D
 Acq On : 05 Aug 2017 00:48
 Operator : VOA122:MAB
 Sample : ISTD10
 Misc : WG1029271,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 05 11:30:43 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.101	96	179405	10.000	ug/L	0.00	
Standard Area 1 = 168241			Recovery = 106.64%				
62) Chlorobenzene-d5	9.669	117	156988	10.000	ug/L	0.01	
Standard Area 1 = 139995			Recovery = 112.14%				
83) 1,4-Dichlorobenzene-d4	12.357	152	84173	10.000	ug/L	0.00	
Standard Area 1 = 75642			Recovery = 111.28%				
System Monitoring Compounds							
38) Dibromofluoromethane	5.281	113	46159	9.874	ug/L	0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.74%				
46) 1,2-Dichloroethane-d4	5.813	65	43122	10.037	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.37%				
63) Toluene-d8	7.807	98	184958	9.653	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.53%				
87) 4-Bromofluorobenzene	11.144	95	70184	9.646	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.46%				
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.628	85	735009	189.173	ug/L		99
3) Chloromethane	1.824	50	793527	193.829	ug/L		99
4) Vinyl chloride	1.896	62	1029783	190.994	ug/L		99
5) Bromomethane	2.227	94	756615	260.886	ug/L		98
6) Chloroethane	2.340	64	634477	203.954	ug/L		100
7) Trichlorofluoromethane	2.495	101	1493223	202.834	ug/L		99
8) Ethyl ether	2.804	74	458410	5483.216	ug/L	#	1
10) 1,1-Dichloroethene	2.990	96	923719	212.851	ug/L		95
11) Carbon disulfide	3.021	76	2236080	207.936	ug/L		99
12) Freon-113	3.031	101	828666	207.903	ug/L		98
13) Iodomethane	3.135	142	1201977	228.739	ug/L		99
14) Acrolein	3.320	56	132241	210.725	ug/L		99
15) Methylene chloride	3.558	84	931098	203.937	ug/L		97
17) Acetone	3.609	43	109258	197.683	ug/L		93
18) trans-1,2-Dichloroethene	3.712	96	1033921	208.822	ug/L		97
19) Methyl acetate	3.723	43	287181	189.869	ug/L		97
21) Methyl tert-butyl ether	3.816	73	2137013	196.553	ug/L		98
22) tert-Butyl alcohol	3.898	59	146492	965.398	ug/L		94
24) Diisopropyl ether	4.187	45	2298347	196.399	ug/L		98
25) 1,1-Dichloroethane	4.311	63	1560496	195.363	ug/L		100
26) Halothane	4.362	117	788873	203.702	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A12.D
 Acq On : 05 Aug 2017 00:48
 Operator : VOA122:MAB
 Sample : ISTD10
 Misc : WG1029271,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 05 11:30:43 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Acrylonitrile	4.362	53	167160	191.941	ug/L	98
28) Ethyl tert-butyl ether	4.538	59	2332750	195.708	ug/L	98
29) Vinyl acetate	4.548	43	1470774	199.334	ug/L	98
30) cis-1,2-Dichloroethene	4.827	96	1081195	199.476	ug/L	98
31) 2,2-Dichloropropane	4.940	77	1322954	189.693	ug/L	96
32) Bromochloromethane	5.023	128	459970	196.326	ug/L	94
33) Cyclohexane	5.033	56	1393888	198.281	ug/L	97
34) Chloroform	5.095	83	1623795	194.723	ug/L	99
35) Ethyl acetate	5.219	43	435715	192.627	ug/L	98
36) Carbon tetrachloride	5.239	117	1464330	207.848	ug/L	99
37) Tetrahydrofuran	5.250	42	147612	180.595	ug/L	91
39) 1,1,1-Trichloroethane	5.301	97	1605983	203.404	ug/L	99
41) 2-Butanone	5.404	43	167789	191.888	ug/L	90
42) 1,1-Dichloropropene	5.425	75	1322634	202.008	ug/L	98
44) Benzene	5.681	78	3962158	210.562	ug/L	98
45) tert-Amyl methyl ether	5.790	73	2156455	196.481	ug/L	98
47) 1,2-Dichloroethane	5.883	62	975036	189.391	ug/L	98
50) Methyl cyclohexane	6.265	83	1647011	211.996	ug/L	97
51) Trichloroethene	6.272	95	1084967	213.217	ug/L	100
53) Dibromomethane	6.716	93	376707	198.631	ug/L	99
54) 1,2-Dichloropropane	6.833	63	854410	203.216	ug/L	99
56) 2-Chloroethyl vinyl ether	7.529	63	432608	197.405	ug/L	98
57) Bromodichloromethane	6.887	83	1293344	209.649	ug/L	100
60) 1,4-Dioxane	7.113	88	14605	1913.406	ug/L #	89
61) cis-1,3-Dichloropropene	7.592	75	1474880	206.600	ug/L	97
64) Toluene	7.869	92	2538972	198.425	ug/L	96
65) 4-Methyl-2-pentanone	8.313	58	188738	200.319	ug/L	95
66) Tetrachloroethene	8.306	166	1384036	206.991	ug/L	99
68) trans-1,3-Dichloropropene	8.348	75	1267718	195.903	ug/L	96
70) Ethyl methacrylate	8.549	69	935819	203.880	ug/L	99
71) 1,1,2-Trichloroethane	8.535	83	600345	194.684	ug/L	100
72) Chlorodibromomethane	8.743	129	988867	205.924	ug/L	100
73) 1,3-Dichloropropane	8.868	76	1187931	189.595	ug/L	100
74) 1,2-Dibromoethane	9.027	107	808256	215.896	ug/L	99
76) 2-Hexanone	9.328	43	278857	195.068	ug/L	97
77) Chlorobenzene	9.680	112	2932803	197.301	ug/L	99
78) Ethylbenzene	9.734	91	4855659	190.199	ug/L	97
79) 1,1,1,2-Tetrachloroethane	9.766	131	1026075	194.708	ug/L	98
80) p/m Xylene	9.917	106	3929828	386.386	ug/L	92
81) o Xylene	10.455	106	3651181	390.994	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A12.D
 Acq On : 05 Aug 2017 00:48
 Operator : VOA122:MAB
 Sample : ISTD10
 Misc : WG1029271,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 05 11:30:43 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.519	104	5832275	387.330	ug/L	98
84) Bromoform	10.530	173	688575	216.662	ug/L	100
86) Isopropylbenzene	10.832	105	5029104	188.286	ug/L	97
88) Bromobenzene	11.262	156	1263774	200.393	ug/L	99
89) n-Propylbenzene	11.316	91	5654699	184.398	ug/L	95
90) 1,4-Dichlorobutane	11.327	55	1007003	183.831	ug/L	98
91) 1,1,2,2-Tetrachloroethane	11.391	83	725792	180.364	ug/L	99
92) 4-Ethyltoluene	11.434	105	4516377	180.971	ug/L	96
93) 2-Chlorotoluene	11.477	91	3652696	185.067	ug/L	97
94) 1,3,5-Trimethylbenzene	11.542	105	3945694	187.174	ug/L	97
95) 1,2,3-Trichloropropane	11.531	75	591421	184.330	ug/L	97
96) trans-1,4-Dichloro-2-b...	11.585	53	184842	181.420	ug/L	87
97) 4-Chlorotoluene	11.660	91	3323329	186.263	ug/L	97
98) tert-Butylbenzene	11.877	119	3662737	191.706	ug/L	99
101) 1,2,4-Trimethylbenzene	11.951	105	3964468	190.391	ug/L	98
102) sec-Butylbenzene	12.062	105	5037069	182.180	ug/L	96
103) p-Isopropyltoluene	12.217	119	4456169	187.069	ug/L	97
104) 1,3-Dichlorobenzene	12.276	146	2413637	195.306	ug/L	99
105) 1,4-Dichlorobenzene	12.372	146	2379725	194.628	ug/L	99
106) p-Diethylbenzene	12.593	119	2727659	199.412	ug/L	98
107) n-Butylbenzene	12.645	91	3936435	188.574	ug/L	97
108) 1,2-Dichlorobenzene	12.792	146	2197307	200.269	ug/L	100
109) 1,2,4,5-Tetramethylben...	13.382	119	3951287	198.452	ug/L	97
110) 1,2-Dibromo-3-chloropr...	13.574	155	143648	216.629	ug/L	99
111) 1,3,5-Trichlorobenzene	13.604	180	1913353	208.353	ug/L	98
112) Hexachlorobutadiene	14.179	225	918128	219.109	ug/L	99
113) 1,2,4-Trichlorobenzene	14.201	180	1694424	207.785	ug/L	99
114) Naphthalene	14.496	128	2888218	198.542	ug/L	100
115) 1,2,3-Trichlorobenzene	14.666	180	1488602	203.346	ug/L	100

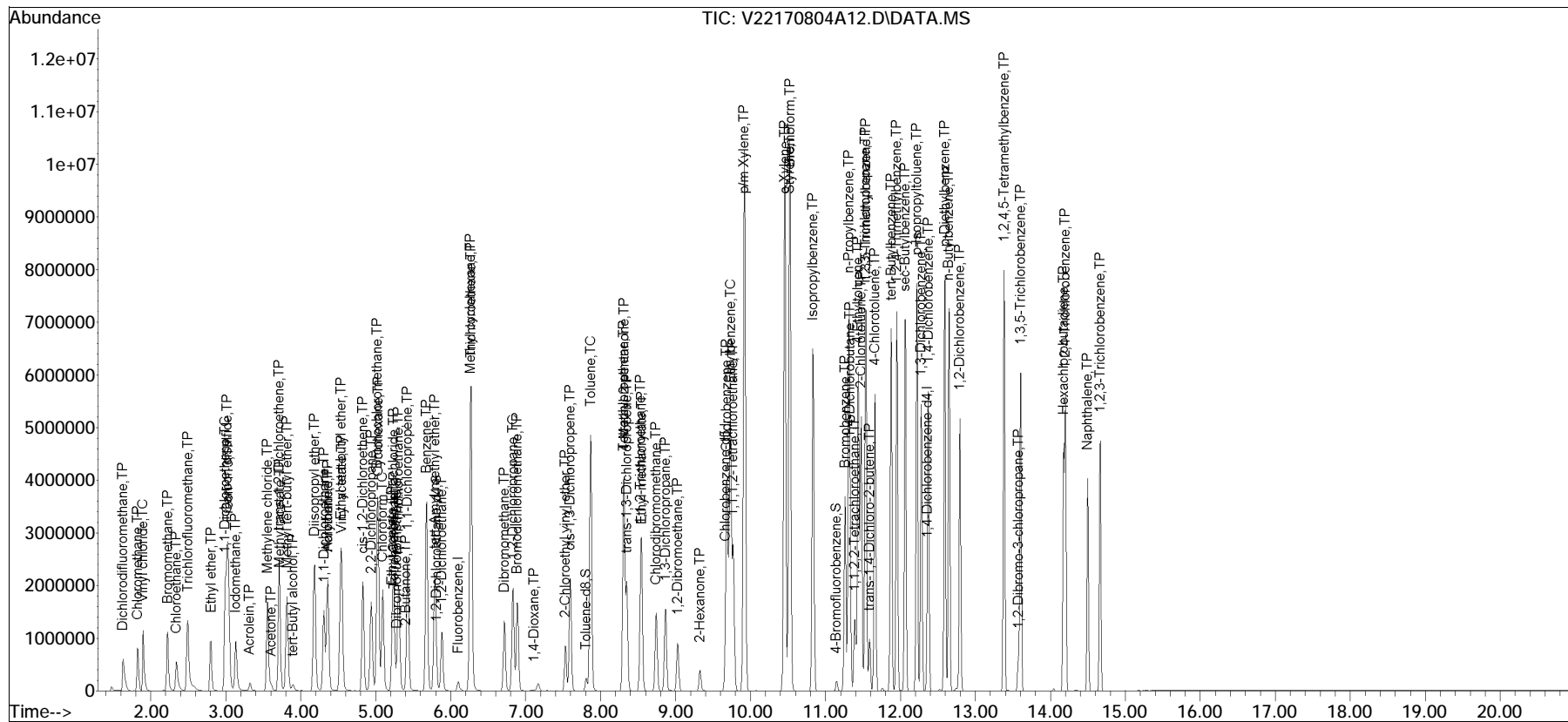
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A12.D
 Acq On : 05 Aug 2017 00:48
 Operator : VOA122:MAB
 Sample : ISTD10
 Misc : WG1029271,ICAL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 05 11:30:43 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:24:55 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox70804A\V22170804A08.D•



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22170804A12.D Operator : VOA122:MAB
Date Inj'd : 8/5/2017 0:48 Instrument : VOA122
Sample : ISTD10 Quant Date : 8/5/2017 11:26 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A18.D
 Acq On : 05 Aug 2017 03:34
 Operator : VOA122:MAB
 Sample : CSTDL3
 Misc : WG1029271,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 11:45:26 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	103	0.00
2 TP	Dichlorodifluoromethane	0.200	0.227	-13.5	108	0.01
3 TP	Chloromethane	0.228	0.247	-8.3	112	0.01
4 TC	Vinyl chloride	0.286	0.307	-7.3	106	0.00
5 TP	Bromomethane	0.187	0.184	1.6	117	0.00
6 TP	Chloroethane	0.172	0.178	-3.5	106	0.00
7 TP	Trichlorofluoromethane	0.393	0.403	-2.5	102	0.00
8 TP	Ethyl ether	0.122	0.129	-5.7	109	0.00
10 TC	1,1-Dichloroethene	0.243	0.249	-2.5	106	0.00
11 TP	Carbon disulfide	0.624	0.655	-5.0	113	0.00
12 TP	Freon-113	0.212	0.257	-21.2#	120	0.00
13 TP	Iodomethane	0.320	0.227	29.1#	80	0.00
14 TP	Acrolein	0.035	0.021#	40.0#	61	0.00
15 TP	Methylene chloride	0.259	0.257	0.8	104	0.00
17 TP	Acetone	0.031	0.030#	3.2	102	0.00
18 TP	trans-1,2-Dichloroethene	0.280	0.273	2.5	102	0.00
19 TP	Methyl acetate	0.081	0.099#	-22.2#	121	0.00
21 TP	Methyl tert-butyl ether	0.600	0.591	1.5	101	0.00
22 TP	tert-Butyl alcohol	0.00775	0.01001#	-29.2#	122	0.01
24 TP	Diisopropyl ether	0.652	0.666	-2.1	106	0.00
25 TP	1,1-Dichloroethane	0.444	0.452	-1.8	105	0.00
26 TP	Halothane	0.214	0.219	-2.3	105	0.00
27 TP	Acrylonitrile	0.044	0.047#	-6.8	100	0.00
28 TP	Ethyl tert-butyl ether	0.658	0.682	-3.6	106	0.00
29 TP	Vinyl acetate	0.408	0.382	6.4	96	0.01
30 TP	cis-1,2-Dichloroethene	0.301	0.304	-1.0	104	0.00
31 TP	2,2-Dichloropropane	0.384	0.343	10.7	91	0.00
32 TP	Bromochloromethane	0.127	0.131	-3.1	104	0.00
33 TP	Cyclohexane	0.372	0.424	-14.0	112	0.00
34 TC	Chloroform	0.461	0.471	-2.2	105	0.00
35 TP	Ethyl acetate	0.124	0.135	-8.9	111	0.00
36 TP	Carbon tetrachloride	0.364	0.380	-4.4	100	0.00
37 TP	Tetrahydrofuran	0.046	0.045#	2.2	102	0.00
38 S	Dibromofluoromethane	0.258	0.253	1.9	101	0.00
39 TP	1,1,1-Trichloroethane	0.438	0.436	0.5	102	0.00
41 TP	2-Butanone	0.046	0.046#	0.0	99	0.00
42 TP	1,1-Dichloropropene	0.362	0.363	-0.3	103	0.00
44 TP	Benzene	1.082	1.070	1.1	105	0.00
45 TP	tert-Amyl methyl ether	0.607	0.628	-3.5	106	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A18.D
 Acq On : 05 Aug 2017 03:34
 Operator : VOA122:MAB
 Sample : CSTDL3
 Misc : WG1029271,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 11:45:26 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
46 S 1,2-Dichloroethane-d4	0.239	0.235	1.7	102	0.00
47 T 1,2-Dichloroethane	0.281	0.273	2.8	98	0.00
50 TP Methyl cyclohexane	0.423	0.484	-14.4	116	0.00
51 TP Trichloroethene	0.279	0.287	-2.9	105	0.00
53 TP Dibromomethane	0.104	0.106	-1.9	104	0.00
54 TC 1,2-Dichloropropane	0.235	0.236	-0.4	104	0.00
56 TP 2-Chloroethyl vinyl ether	0.119	0.110	7.6	93	0.00
57 TP Bromodichloromethane	0.350	0.327	6.6	98	0.00
60 TP 1,4-Dioxane	0.00042	0.00049#	-16.7	119	0.00
61 TP cis-1,3-Dichloropropene	0.403	0.390	3.2	101	0.00
62 I Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
63 S Toluene-d8	1.202	1.217	-1.2	102	0.00
64 TC Toluene	0.813	0.840	-3.3	106	0.00
65 TP 4-Methyl-2-pentanone	0.059	0.056#	5.1	96	0.00
66 TP Tetrachloroethene	0.420	0.423	-0.7	102	0.00
68 TP trans-1,3-Dichloropropene	0.402	0.401	0.2	100	0.00
70 TP Ethyl methacrylate	0.286	0.293	-2.4	103	0.00
71 TP 1,1,2-Trichloroethane	0.192	0.197	-2.6	103	0.00
72 TP Chlorodibromomethane	0.303	0.305	-0.7	102	0.00
73 TP 1,3-Dichloropropane	0.390	0.404	-3.6	104	0.00
74 TP 1,2-Dibromoethane	0.244	0.242	0.8	104	0.00
76 TP 2-Hexanone	0.086	0.086#	0.0	97	0.00
77 TP Chlorobenzene	0.945	0.941	0.4	102	0.00
78 TC Ethylbenzene	1.597	1.663	-4.1	105	0.00
79 TP 1,1,1,2-Tetrachloroethane	0.330	0.343	-3.9	105	0.00
80 TP p/m Xylene	0.640	0.651	-1.7	103	0.00
81 TP o Xylene	0.587	0.625	-6.5	108	0.00
82 TP Styrene	0.947	1.003	-5.9	107	0.00
83 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
84 TP Bromoform	0.384	0.377	1.8	102	0.00
86 TP Isopropylbenzene	3.124	3.098	0.8	100	0.00
87 S 4-Bromofluorobenzene	0.864	0.870	-0.7	103	0.00
88 TP Bromobenzene	0.756	0.757	-0.1	103	0.00
89 TP n-Propylbenzene	3.556	3.578	-0.6	100	0.00
90 TP 1,4-Dichlorobutane	0.632	0.670	-6.0	105	0.00
91 TP 1,1,2,2-Tetrachloroethane	0.464	0.489	-5.4	105	0.01
92 TP 4-Ethyltoluene	2.865	3.228	-12.7	111	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A18.D
 Acq On : 05 Aug 2017 03:34
 Operator : VOA122:MAB
 Sample : CSTDL3
 Misc : WG1029271,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 11:45:26 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
93 TP 2-Chlorotoluene	2.297	2.386	-3.9	104	0.00
94 TP 1,3,5-Trimethylbenzene	2.447	2.469	-0.9	101	0.00
95 TP 1,2,3-Trichloropropane	0.372	0.390	-4.8	105	0.00
96 TP trans-1,4-Dichloro-2-butene	0.117	0.119	-1.7	100	0.00
97 TP 4-Chlorotoluene	2.093	2.053	1.9	99	0.01
98 TP tert-Butylbenzene	2.243	2.249	-0.3	101	0.00
101 TP 1,2,4-Trimethylbenzene	2.450	2.514	-2.6	104	0.00
102 TP sec-Butylbenzene	3.176	3.321	-4.6	103	0.00
103 TP p-Isopropyltoluene	2.756	2.801	-1.6	101	0.00
104 TP 1,3-Dichlorobenzene	1.464	1.467	-0.2	102	0.00
105 TP 1,4-Dichlorobenzene	1.446	1.413	2.3	99	0.00
106 TP p-Diethylbenzene	1.599	1.678	-4.9	106	0.00
107 TP n-Butylbenzene	2.408	2.460	-2.2	101	0.00
108 TP 1,2-Dichlorobenzene	1.315	1.292	1.7	101	0.00
109 TP 1,2,4,5-Tetramethylbenzene	2.362	2.493	-5.5	108	0.00
110 TP 1,2-Dibromo-3-chloropropane	0.077	0.082	-6.5	106	0.00
111 TP 1,3,5-Trichlorobenzene	1.101	1.109	-0.7	104	0.00
112 TP Hexachlorobutadiene	0.493	0.476	3.4	98	0.00
113 TP 1,2,4-Trichlorobenzene	0.968	0.963	0.5	102	0.00
114 TP Naphthalene	1.710	1.729	-1.1	102	0.00
115 TP 1,2,3-Trichlorobenzene	0.872	0.854	2.1	100	0.00

* Evaluation of CC level amount vs concentration.

(#) = Out of Range SPCC's out = 10 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A18.D
 Acq On : 05 Aug 2017 03:34
 Operator : VOA122:MAB
 Sample : CSTDL3
 Misc : WG1029271,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 11:45:26 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.101	96	173947	10.000	ug/L	0.00	
Standard Area 1 = 168241			Recovery = 103.39%				
62) Chlorobenzene-d5	9.658	117	143529	10.000	ug/L	0.00	
Standard Area 1 = 139995			Recovery = 102.52%				
83) 1,4-Dichlorobenzene-d4	12.349	152	77346	10.000	ug/L	0.00	
Standard Area 1 = 75642			Recovery = 102.25%				
System Monitoring Compounds							
38) Dibromofluoromethane	5.270	113	44080	9.805	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.05%				
46) 1,2-Dichloroethane-d4	5.813	65	40923	9.835	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.35%				
63) Toluene-d8	7.807	98	174740	10.128	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.28%				
87) 4-Bromofluorobenzene	11.143	95	67279	10.069	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.69%				
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.638	85	39471	11.329	ug/L		99
3) Chloromethane	1.834	50	42981	10.829	ug/L		99
4) Vinyl chloride	1.896	62	53371	10.744	ug/L		99
5) Bromomethane	2.226	94	31938	9.821	ug/L		100
6) Chloroethane	2.350	64	30997	10.374	ug/L		100
7) Trichlorofluoromethane	2.495	101	70166	10.255	ug/L		100
8) Ethyl ether	2.804	74	22369	10.532	ug/L	#	1
10) 1,1-Dichloroethene	2.990	96	43231	10.236	ug/L		100
11) Carbon disulfide	3.021	76	114000	10.508	ug/L		100
12) Freon-113	3.042	101	44686	12.100	ug/L		99
13) Iodomethane	3.134	142	39428	7.076	ug/L		99
14) Acrolein	3.330	56	3614	5.873	ug/L		96
15) Methylene chloride	3.557	84	44626	9.915	ug/L		99
17) Acetone	3.609	43	5298	9.745	ug/L		99
18) trans-1,2-Dichloroethene	3.712	96	47542	9.744	ug/L		100
19) Methyl acetate	3.733	43	17195	12.155	ug/L		97
21) Methyl tert-butyl ether	3.815	73	102803	9.852	ug/L		100
22) tert-Butyl alcohol	3.908	59	8706	64.549	ug/L		96
24) Diisopropyl ether	4.187	45	115831	10.209	ug/L		100
25) 1,1-Dichloroethane	4.311	63	78623	10.190	ug/L		99
26) Halothane	4.362	117	38164	10.276	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A18.D
 Acq On : 05 Aug 2017 03:34
 Operator : VOA122:MAB
 Sample : CSTDL3
 Misc : WG1029271,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 11:45:26 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Acrylonitrile	4.362	53	8192	10.615	ug/L	97
28) Ethyl tert-butyl ether	4.538	59	118639	10.365	ug/L	96
29) Vinyl acetate	4.558	43	66388	9.346	ug/L	98
30) cis-1,2-Dichloroethene	4.826	96	52891	10.104	ug/L	100
31) 2,2-Dichloropropane	4.940	77	59748	8.952	ug/L	100
32) Bromochloromethane	5.023	128	22803	10.348	ug/L	99
33) Cyclohexane	5.033	56	73745	11.393	ug/L	99
34) Chloroform	5.095	83	81846	10.207	ug/L	99
35) Ethyl acetate	5.219	43	23473	10.843	ug/L	99
36) Carbon tetrachloride	5.239	117	66105	10.445	ug/L	100
37) Tetrahydrofuran	5.260	42	7810	9.723	ug/L	98
39) 1,1,1-Trichloroethane	5.301	97	75857	9.952	ug/L	100
41) 2-Butanone	5.404	43	8081	10.170	ug/L	95
42) 1,1-Dichloropropene	5.425	75	63218	10.044	ug/L	99
44) Benzene	5.681	78	186159	9.895	ug/L	100
45) tert-Amyl methyl ether	5.790	73	109303	10.350	ug/L	100
47) 1,2-Dichloroethane	5.883	62	47507	9.729	ug/L	100
50) Methyl cyclohexane	6.264	83	84193	11.444	ug/L	99
51) Trichloroethene	6.272	95	49888	10.262	ug/L	99
53) Dibromomethane	6.716	93	18509	10.221	ug/L	99
54) 1,2-Dichloropropane	6.833	63	41079	10.061	ug/L	99
56) 2-Chloroethyl vinyl ether	7.529	63	19140	9.247	ug/L	100
57) Bromodichloromethane	6.887	83	56828	9.322	ug/L	99
60) 1,4-Dioxane	7.113	88	4271	582.125	ug/L #	89
61) cis-1,3-Dichloropropene	7.592	75	67887	9.678	ug/L	100
64) Toluene	7.862	92	120625	10.343	ug/L	98
65) 4-Methyl-2-pentanone	8.313	58	8034	9.421	ug/L	99
66) Tetrachloroethene	8.306	166	60736	10.066	ug/L	99
68) trans-1,3-Dichloropropene	8.347	75	57578	9.987	ug/L	99
70) Ethyl methacrylate	8.549	69	42004	10.227	ug/L	99
71) 1,1,2-Trichloroethane	8.535	83	28311	10.263	ug/L	99
72) Chlorodibromomethane	8.743	129	43795	10.065	ug/L	100
73) 1,3-Dichloropropane	8.861	76	58031	10.369	ug/L	100
74) 1,2-Dibromoethane	9.027	107	34704	9.925	ug/L	99
76) 2-Hexanone	9.328	43	12400	10.006	ug/L	100
77) Chlorobenzene	9.680	112	135072	9.958	ug/L	99
78) Ethylbenzene	9.723	91	238733	10.415	ug/L	100
79) 1,1,1,2-Tetrachloroethane	9.766	131	49210	10.403	ug/L	99
80) p/m Xylene	9.916	106	186960	20.364	ug/L	100
81) o Xylene	10.455	106	179510	21.309	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A18.D
 Acq On : 05 Aug 2017 03:34
 Operator : VOA122:MAB
 Sample : CSTDL3
 Misc : WG1029271,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 11:45:26 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\170804A\V22170804A08.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Styrene	10.519	104	287778	21.171	ug/L	100
84) Bromoform	10.530	173	29182	9.837	ug/L	100
86) Isopropylbenzene	10.831	105	239600	9.916	ug/L	100
88) Bromobenzene	11.262	156	58584	10.019	ug/L	98
89) n-Propylbenzene	11.305	91	276775	10.062	ug/L	99
90) 1,4-Dichlorobutane	11.326	55	51804	10.603	ug/L	99
91) 1,1,2,2-Tetrachloroethane	11.391	83	37840	10.549	ug/L	98
92) 4-Ethyltoluene	11.434	105	249652	11.265	ug/L	99
93) 2-Chlorotoluene	11.466	91	184534	10.386	ug/L	100
94) 1,3,5-Trimethylbenzene	11.531	105	190980	10.090	ug/L	100
95) 1,2,3-Trichloropropane	11.531	75	30135	10.466	ug/L	99
96) trans-1,4-Dichloro-2-b...	11.585	53	9172	10.145	ug/L	98
97) 4-Chlorotoluene	11.660	91	158766	9.810	ug/L	100
98) tert-Butylbenzene	11.870	119	173960	10.027	ug/L	100
101) 1,2,4-Trimethylbenzene	11.951	105	194444	10.261	ug/L	100
102) sec-Butylbenzene	12.062	105	256832	10.456	ug/L	100
103) p-Isopropyltoluene	12.217	119	216655	10.163	ug/L	100
104) 1,3-Dichlorobenzene	12.276	146	113496	10.024	ug/L	100
105) 1,4-Dichlorobenzene	12.372	146	109260	9.768	ug/L	100
106) p-Diethylbenzene	12.585	119	129760	10.494	ug/L	99
107) n-Butylbenzene	12.644	91	190246	10.213	ug/L	99
108) 1,2-Dichlorobenzene	12.792	146	99893	9.820	ug/L	99
109) 1,2,4,5-Tetramethylben...	13.382	119	192804	10.553	ug/L	100
110) 1,2-Dibromo-3-chloropr...	13.567	155	6335	10.692	ug/L	98
111) 1,3,5-Trichlorobenzene	13.604	180	85771	10.070	ug/L	100
112) Hexachlorobutadiene	14.179	225	36847	9.665	ug/L	99
113) 1,2,4-Trichlorobenzene	14.201	180	74504	9.948	ug/L	100
114) Naphthalene	14.496	128	133744	10.109	ug/L	100
115) 1,2,3-Trichlorobenzene	14.666	180	66023	9.792	ug/L	99

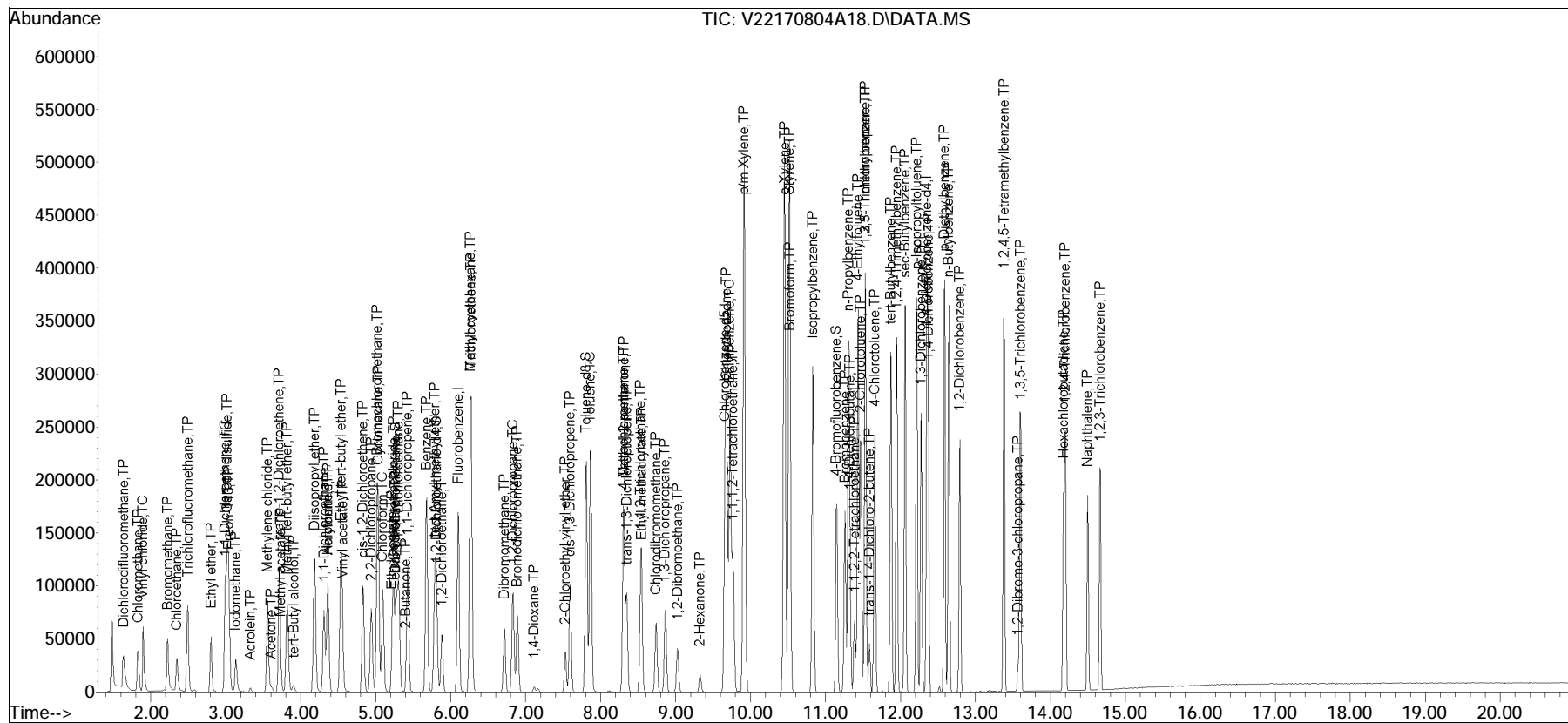
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\170804A\
 Data File : V22170804A18.D
 Acq On : 05 Aug 2017 03:34
 Operator : VOA122:MAB
 Sample : CSTDL3
 Misc : WG1029271,ICAL
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 05 11:45:26 2017
 Quant Method : I:\VOLATILES\VOA122\2017\170804A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox70804A\V22170804A08.D•



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22170804A18.D Operator : VOA122:MAB
Date Inj'd : 8/5/2017 3:34 Instrument : VOA122
Sample : CSTDL3 Quant Date : 8/5/2017 11:45 am

There are no manual integrations or false positives in this file.

Continuing Calibration

Continuing Calibration Form 7

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Instrument ID : VOA122
 Lab File ID : V22171110A02
 Sample No : WG1061830-2
 Channel :

Lab Number : L1740596
 Project Number : 06.6448
 Calibration Date : 11/10/17 08:47
 Init. Calib. Date(s) : 08/04/17 08/05/17
 Init. Calib. Times : 20:41 00:48

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	124	0
Dichlorodifluoromethane	0.2	0.228	-	-14	20	131	0
Chloromethane	0.228	0.171	-	25*	20	93	0
Vinyl chloride	0.286	0.321	-	-12.2	20	133	0
Bromomethane	0.187	0.104	-	44.4*	20	80	-0.01
Chloroethane	0.172	0.204	-	-18.6	20	147	0
Trichlorofluoromethane	0.393	0.393	-	0	20	119	0
Ethyl ether	0.122	0.101	-	17.2	20	103	-0.01
1,1-Dichloroethene	0.243	0.209	-	14	20	107	0
Carbon disulfide	0.624	0.557	-	10.7	20	115	0
Freon-113	0.212	0.218	-	-2.8	20	122	-0.01
Iodomethane	0.32	0.019*	-	94.1*	20	8	0
Acrolein	0.035	0.018*	-	48.6*	20	65	-0.02
Methylene chloride	0.259	0.226	-	12.7	20	110	0
Acetone	0.031	0.027*	-	12.9	20	110	-0.01
trans-1,2-Dichloroethene	0.28	0.245	-	12.5	20	110	0
Methyl acetate	0.081	0.083*	-	-2.5	20	122	-0.01
Methyl tert-butyl ether	0.6	0.478	-	20.3*	20	98	0
tert-Butyl alcohol	0.00775	0.00607*	-	21.7*	20	89	-0.02
Diisopropyl ether	0.652	0.647	-	0.8	20	123	-0.02
1,1-Dichloroethane	0.444	0.433	-	2.5	20	121	-0.01
Halothane	0.214	0.184	-	14	20	106	-0.02
Acrylonitrile	0.044	0.043*	-	2.3	20	111	-0.02
Ethyl tert-butyl ether	0.658	0.578	-	12.2	20	108	-0.01
Vinyl acetate	0.408	0.399	-	2.2	20	120	-0.01
cis-1,2-Dichloroethene	0.301	0.264	-	12.3	20	108	0
2,2-Dichloropropane	0.384	0.356	-	7.3	20	114	0
Bromochloromethane	0.127	0.112	-	11.8	20	107	-0.01
Cyclohexane	0.372	0.4	-	-7.5	20	127	-0.01
Chloroform	0.461	0.425	-	7.8	20	114	0
Ethyl acetate	0.124	0.116	-	6.5	20	115	-0.01
Carbon tetrachloride	0.364	0.356	-	2.2	20	113	-0.02
Tetrahydrofuran	0.046	0.041*	-	10.9	20	112	-0.02
Dibromofluoromethane	0.258	0.249	-	3.5	20	119	0
1,1,1-Trichloroethane	0.438	0.403	-	8	20	114	0
2-Butanone	0.046	0.045*	-	2.2	20	115	0
1,1-Dichloropropene	0.362	0.337	-	6.9	20	115	0
Benzene	1.082	1.036	-	4.3	20	123	-0.01
tert-Amyl methyl ether	0.607	0.495	-	18.5	20	100	0
1,2-Dichloroethane-d4	0.239	0.261	-	-9.2	20	135	-0.01
1,2-Dichloroethane	0.281	0.281	-	0	20	122	-0.02
Methyl cyclohexane	0.423	0.419	-	0.9	20	120	0
Trichloroethene	0.279	0.258	-	7.5	20	113	-0.02
Dibromomethane	0.104	0.117	-	-12.5	20	138	-0.02
1,2-Dichloropropane	0.235	0.23	-	2.1	20	122	-0.02

* Value outside of QC limits.



Continuing Calibration Form 7

Client : C.T. Male Associates
 Project Name : OLD CHAMPLAIN MILL
 Instrument ID : VOA122
 Lab File ID : V22171110A02
 Sample No : WG1061830-2
 Channel :

Lab Number : L1740596
 Project Number : 06.6448
 Calibration Date : 11/10/17 08:47
 Init. Calib. Date(s) : 08/04/17 08/05/17
 Init. Calib. Times : 20:41 00:48

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2-Chloroethyl vinyl ether	0.119	0.086	-	27.7*	20	87	-0.1
Bromodichloromethane	0.35	0.305	-	12.9	20	110	-0.1
1,4-Dioxane	0.00042	0.00036*	-	14.3	20	105	-0.1
cis-1,3-Dichloropropene	0.403	0.339	-	15.9	20	106	-0.1
Chlorobenzene-d5	1	1	-	0	20	118	-0.1
Toluene-d8	1.202	1.288	-	-7.2	20	125	-0.2
Toluene	0.813	0.798	-	1.8	20	116	0
4-Methyl-2-pentanone	0.059	0.053*	-	10.2	20	105	-0.1
Tetrachloroethene	0.42	0.356	-	15.2	20	98	-0.1
trans-1,3-Dichloropropene	0.402	0.363	-	9.7	20	104	-0.2
Ethyl methacrylate	0.286	0.218	-	23.8*	20	88	-0.2
1,1,2-Trichloroethane	0.192	0.181	-	5.7	20	109	-0.2
Chlorodibromomethane	0.303	0.262	-	13.5	20	101	-0.2
1,3-Dichloropropane	0.39	0.372	-	4.6	20	110	-0.1
1,2-Dibromoethane	0.244	0.204	-	16.4	20	101	-0.2
2-Hexanone	0.086	0.087*	-	-1.2	20	112	-0.1
Chlorobenzene	0.945	0.875	-	7.4	20	109	-0.2
Ethylbenzene	1.597	1.565	-	2	20	113	-0.1
1,1,1,2-Tetrachloroethane	0.33	0.297	-	10	20	105	-0.2
p/m Xylene	0.64	0.616	-	3.8	20	112	-0.1
o Xylene	0.587	0.655	-	-11.6	20	130	-0.1
Styrene	0.947	0.427	-	54.9*	20	53	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	115	0
Bromoform	0.384	0.211	-	45.1*	20	64	-0.1
Isopropylbenzene	3.124	3.17	-	-1.5	20	115	-0.1
4-Bromofluorobenzene	0.864	0.917	-	-6.1	20	122	-0.1
Bromobenzene	0.756	0.655	-	13.4	20	100	-0.2
n-Propylbenzene	3.556	3.788	-	-6.5	20	119	-0.1
1,4-Dichlorobutane	0.632	0.696	-	-10.1	20	123	-0.1
1,1,1,2,2-Tetrachloroethane	0.464	0.451	-	2.8	20	108	-0.1
4-Ethyltoluene	2.865	3.009	-	-5	20	117	0
2-Chlorotoluene	2.297	2.423	-	-5.5	20	119	-0.1
1,3,5-Trimethylbenzene	2.447	2.555	-	-4.4	20	117	0
1,2,3-Trichloropropane	0.372	0.376	-	-1.1	20	113	0
trans-1,4-Dichloro-2-buten	0.117	0.084	-	28.2*	20	79	-0.2
4-Chlorotoluene	2.093	2.169	-	-3.6	20	117	0
tert-Butylbenzene	2.243	2.734	-	-21.9*	20	138	0
1,2,4-Trimethylbenzene	2.45	3.116	-	-27.2*	20	145	-0.2
sec-Butylbenzene	3.176	3.353	-	-5.6	20	117	-0.1
p-Isopropyltoluene	2.756	2.857	-	-3.7	20	116	-0.1
1,3-Dichlorobenzene	1.464	1.41	-	3.7	20	110	-0.1
1,4-Dichlorobenzene	1.446	1.378	-	4.7	20	109	-0.1
p-Diethylbenzene	1.599	1.629	-	-1.9	20	115	-0.1
n-Butylbenzene	2.408	2.652	-	-10.1	20	123	-0.1
1,2-Dichlorobenzene	1.315	1.233	-	6.2	20	109	-0.1

* Value outside of QC limits.



Continuing Calibration Form 7

Client : C.T. Male Associates
Project Name : OLD CHAMPLAIN MILL
Instrument ID : VOA122
Lab File ID : V22171110A02
Sample No : WG1061830-2
Channel :

Lab Number : L1740596
Project Number : 06.6448
Calibration Date : 11/10/17 08:47
Init. Calib. Date(s) : 08/04/17 08/05/17
Init. Calib. Times : 20:41 00:48

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2,4,5-Tetramethylbenzene	2.362	2.234	-	5.4	20	108	-.01
1,2-Dibromo-3-chloropropan	0.077	0.054	-	29.9*	20	79	0
1,3,5-Trichlorobenzene	1.101	0.867	-	21.3*	20	91	0
Hexachlorobutadiene	0.493	0.304	-	38.3*	20	70	0
1,2,4-Trichlorobenzene	0.968	0.706	-	27.1*	20	84	-.01
Naphthalene	1.71	1.355	-	20.8*	20	90	0
1,2,3-Trichlorobenzene	0.872	0.613	-	29.7*	20	81	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A02.D
 Acq On : 10 Nov 2017 08:47 am
 Operator : VOA122:PD
 Sample : WG1061830-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:10:29 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	124	0.00
2 TP	Dichlorodifluoromethane	0.200	0.228	-14.0	131	0.00
3 TP	Chloromethane	0.228	0.171	25.0#	93	0.00
4 TC	Vinyl chloride	0.286	0.321	-12.2	133	0.00
5 TP	Bromomethane	0.187	0.104	44.4#	80	-0.01
6 TP	Chloroethane	0.172	0.204	-18.6	147	0.00
7 TP	Trichlorofluoromethane	0.393	0.393	0.0	119	0.00
8 TP	Ethyl ether	0.122	0.101	17.2	103	-0.01
10 TC	1,1-Dichloroethene	0.243	0.209	14.0	107	0.00
11 TP	Carbon disulfide	0.624	0.557	10.7	115	0.00
12 TP	Freon-113	0.212	0.218	-2.8	122	-0.01
13 TP	Iodomethane	0.320	0.019#	94.1#	8#	0.00
14 TP	Acrolein	0.035	0.018#	48.6#	65	-0.02
15 TP	Methylene chloride	0.259	0.226	12.7	110	0.00
17 TP	Acetone	0.031	0.027#	12.9	110	-0.01
18 TP	trans-1,2-Dichloroethene	0.280	0.245	12.5	110	0.00
19 TP	Methyl acetate	0.081	0.083#	-2.5	122	-0.01
21 TP	Methyl tert-butyl ether	0.600	0.478	20.3#	98	0.00
22 TP	tert-Butyl alcohol	0.00775	0.00607#	21.7#	89	-0.02
24 TP	Diisopropyl ether	0.652	0.647	0.8	123	-0.02
25 TP	1,1-Dichloroethane	0.444	0.433	2.5	121	-0.01
26 TP	Halothane	0.214	0.184	14.0	106	-0.02
27 TP	Acrylonitrile	0.044	0.043#	2.3	111	-0.02
28 TP	Ethyl tert-butyl ether	0.658	0.578	12.2	108	-0.01
29 TP	Vinyl acetate	0.408	0.399	2.2	120	-0.01
30 TP	cis-1,2-Dichloroethene	0.301	0.264	12.3	108	0.00
31 TP	2,2-Dichloropropane	0.384	0.356	7.3	114	0.00
32 TP	Bromochloromethane	0.127	0.112	11.8	107	-0.01
33 TP	Cyclohexane	0.372	0.400	-7.5	127	-0.01
34 TC	Chloroform	0.461	0.425	7.8	114	0.00
35 TP	Ethyl acetate	0.124	0.116	6.5	115	-0.01
36 TP	Carbon tetrachloride	0.364	0.356	2.2	113	-0.02
37 TP	Tetrahydrofuran	0.046	0.041#	10.9	112	-0.02
38 S	Dibromofluoromethane	0.258	0.249	3.5	119	0.00
39 TP	1,1,1-Trichloroethane	0.438	0.403	8.0	114	0.00
41 TP	2-Butanone	0.046	0.045#	2.2	115	0.00
42 TP	1,1-Dichloropropene	0.362	0.337	6.9	115	0.00
44 TP	Benzene	1.082	1.036	4.3	123	-0.01
45 TP	tert-Amyl methyl ether	0.607	0.495	18.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A02.D
 Acq On : 10 Nov 2017 08:47 am
 Operator : VOA122:PD
 Sample : WG1061830-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061830, ICAL13890 (Sig #1); WG, ICAL13890 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:10:29 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
46 S 1,2-Dichloroethane-d4	0.239	0.261	-9.2	135	-0.01
47 T 1,2-Dichloroethane	0.281	0.281	0.0	122	-0.02
50 TP Methyl cyclohexane	0.423	0.419	0.9	120	0.00
51 TP Trichloroethene	0.279	0.258	7.5	113	-0.02
53 TP Dibromomethane	0.104	0.117	-12.5	138	-0.02
54 TC 1,2-Dichloropropane	0.235	0.230	2.1	122	-0.02
56 TP 2-Chloroethyl vinyl ether	0.119	0.086	27.7#	87	-0.01
57 TP Bromodichloromethane	0.350	0.305	12.9	110	-0.01
60 TP 1,4-Dioxane	0.00042	0.00036#	14.3	105	-0.01
61 TP cis-1,3-Dichloropropene	0.403	0.339	15.9	106	-0.01
62 I Chlorobenzene-d5	1.000	1.000	0.0	118	-0.01
63 S Toluene-d8	1.202	1.288	-7.2	125	-0.02
64 TC Toluene	0.813	0.798	1.8	116	0.00
65 TP 4-Methyl-2-pentanone	0.059	0.053#	10.2	105	-0.01
66 TP Tetrachloroethene	0.420	0.356	15.2	98	-0.01
68 TP trans-1,3-Dichloropropene	0.402	0.363	9.7	104	-0.02
70 TP Ethyl methacrylate	0.286	0.218	23.8#	88	-0.02
71 TP 1,1,2-Trichloroethane	0.192	0.181	5.7	109	-0.02
72 TP Chlorodibromomethane	0.303	0.262	13.5	101	-0.02
73 TP 1,3-Dichloropropane	0.390	0.372	4.6	110	-0.01
74 TP 1,2-Dibromoethane	0.244	0.204	16.4	101	-0.02
76 TP 2-Hexanone	0.086	0.087#	-1.2	112	-0.01
77 TP Chlorobenzene	0.945	0.875	7.4	109	-0.02
78 TC Ethylbenzene	1.597	1.565	2.0	113	-0.01
79 TP 1,1,1,2-Tetrachloroethane	0.330	0.297	10.0	105	-0.02
80 TP p/m Xylene	0.640	0.616	3.8	112	-0.01
81 TP o Xylene	0.587	0.655	-11.6	130	-0.01
82 TP Styrene	0.947	0.427	54.9#	53	0.00
83 I 1,4-Dichlorobenzene-d4	1.000	1.000	0.0	115	0.00
84 TP Bromoform	0.384	0.211	45.1#	64	-0.01
86 TP Isopropylbenzene	3.124	3.170	-1.5	115	-0.01
87 S 4-Bromofluorobenzene	0.864	0.917	-6.1	122	-0.01
88 TP Bromobenzene	0.756	0.655	13.4	100	-0.02
89 TP n-Propylbenzene	3.556	3.788	-6.5	119	-0.01
90 TP 1,4-Dichlorobutane	0.632	0.696	-10.1	123	-0.01
91 TP 1,1,2,2-Tetrachloroethane	0.464	0.451	2.8	108	-0.01
92 TP 4-Ethyltoluene	2.865	3.009	-5.0	117	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A02.D
 Acq On : 10 Nov 2017 08:47 am
 Operator : VOA122:PD
 Sample : WG1061830-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:10:29 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
93 TP	2-Chlorotoluene	2.297	2.423	-5.5	119	-0.01
94 TP	1,3,5-Trimethylbenzene	2.447	2.555	-4.4	117	0.00
95 TP	1,2,3-Trichloropropane	0.372	0.376	-1.1	113	0.00
96 TP	trans-1,4-Dichloro-2-butene	0.117	0.084	28.2#	79	-0.02
97 TP	4-Chlorotoluene	2.093	2.169	-3.6	117	0.00
98 TP	tert-Butylbenzene	2.243	2.734	-21.9#	138	0.00
101 TP	1,2,4-Trimethylbenzene	2.450	3.116	-27.2#	145	-0.02
102 TP	sec-Butylbenzene	3.176	3.353	-5.6	117	-0.01
103 TP	p-Isopropyltoluene	2.756	2.857	-3.7	116	-0.01
104 TP	1,3-Dichlorobenzene	1.464	1.410	3.7	110	-0.01
105 TP	1,4-Dichlorobenzene	1.446	1.378	4.7	109	-0.01
106 TP	p-Diethylbenzene	1.599	1.629	-1.9	115	-0.01
107 TP	n-Butylbenzene	2.408	2.652	-10.1	123	-0.01
108 TP	1,2-Dichlorobenzene	1.315	1.233	6.2	109	-0.01
109 TP	1,2,4,5-Tetramethylbenzene	2.362	2.234	5.4	108	-0.01
110 TP	1,2-Dibromo-3-chloropropane	0.077	0.054	29.9#	79	0.00
111 TP	1,3,5-Trichlorobenzene	1.101	0.867	21.3#	91	0.00
112 TP	Hexachlorobutadiene	0.493	0.304	38.3#	70	0.00
113 TP	1,2,4-Trichlorobenzene	0.968	0.706	27.1#	84	-0.01
114 TP	Naphthalene	1.710	1.355	20.8#	90	0.00
115 TP	1,2,3-Trichlorobenzene	0.872	0.613	29.7#	81	0.00

* Evaluation of CC level amount vs concentration.

(#) = Out of Range

SPCC's out = 11 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A02.D
 Acq On : 10 Nov 2017 08:47 am
 Operator : VOA122:PD
 Sample : WG1061830-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:10:29 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.091	96	209053	10.000	ug/L	0.00	
62) Chlorobenzene-d5	9.646	117	165135	10.000	ug/L	-0.01	
83) 1,4-Dichlorobenzene-d4	12.341	152	86857	10.000	ug/L	0.00	
System Monitoring Compounds							
38) Dibromofluoromethane	5.265	113	52135	9.650	ug/L	0.00	
Spiked Amount	10.000		Range 70 - 130	Recovery =	96.50%		
46) 1,2-Dichloroethane-d4	5.802	65	54462	10.891	ug/L	-0.01	
Spiked Amount	10.000		Range 70 - 130	Recovery =	108.91%		
63) Toluene-d8	7.790	98	212761	10.718	ug/L	-0.02	
Spiked Amount	10.000		Range 70 - 130	Recovery =	107.18%		
87) 4-Bromofluorobenzene	11.133	95	79654	10.616	ug/L	-0.01	
Spiked Amount	10.000		Range 70 - 130	Recovery =	106.16%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.628	85	47626	11.374	ug/L		98
3) Chloromethane	1.827	50	35651	7.474	ug/L		99
4) Vinyl chloride	1.894	62	67123	11.243	ug/L		99
5) Bromomethane	2.216	94	21805M1	5.579	ug/L		
6) Chloroethane	2.348	64	42744	11.903	ug/L		99
7) Trichlorofluoromethane	2.490	101	82176	9.993	ug/L		99
8) Ethyl ether	2.793	74	21013	8.232	ug/L	#	1
10) 1,1-Dichloroethene	2.992	96	43614	8.592	ug/L		85
11) Carbon disulfide	3.011	76	116372	8.925	ug/L		100
12) Freon-113	3.030	101	45578	10.269	ug/L		94
13) Iodomethane	3.125	142	3882	0.580	ug/L		92
14) Acrolein	3.314	56	3814	5.157	ug/L		96
15) Methylene chloride	3.551	84	47218	8.729	ug/L		85
17) Acetone	3.598	43	5677	8.689	ug/L		94
18) trans-1,2-Dichloroethene	3.703	96	51122	8.718	ug/L		92
19) Methyl acetate	3.722	43	17343	10.201	ug/L		94
21) Methyl tert-butyl ether	3.807	73	99866	7.963	ug/L		93
22) tert-Butyl alcohol	3.883	59	6340	39.113	ug/L		94
24) Diisopropyl ether	4.167	45	135197	9.915	ug/L		94
25) 1,1-Dichloroethane	4.299	63	90518	9.761	ug/L		98
26) Halothane	4.347	117	38563	8.639	ug/L		100
27) Acrylonitrile	4.347	53	9069	9.778	ug/L		94
28) Ethyl tert-butyl ether	4.527	59	120825	8.783	ug/L		93
29) Vinyl acetate	4.536	43	83338	9.762	ug/L	#	94
30) cis-1,2-Dichloroethene	4.820	96	55101	8.759	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A02.D
 Acq On : 10 Nov 2017 08:47 am
 Operator : VOA122:PD
 Sample : WG1061830-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:10:29 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) 2,2-Dichloropropane	4.934	77	74439	9.280	ug/L	90
32) Bromochloromethane	5.010	128	23459	8.858	ug/L #	85
33) Cyclohexane	5.019	56	83526	10.737	ug/L	86
34) Chloroform	5.085	83	88846	9.219	ug/L	97
35) Ethyl acetate	5.208	43	24312	9.345	ug/L	97
36) Carbon tetrachloride	5.218	117	74476	9.791	ug/L	97
37) Tetrahydrofuran	5.237	42	8590	8.898	ug/L	87
39) 1,1,1-Trichloroethane	5.294	97	84297	9.202	ug/L	95
41) 2-Butanone	5.398	43	9401	9.844	ug/L	99
42) 1,1-Dichloropropene	5.417	75	70440	9.312	ug/L	98
44) Benzene	5.668	78	216614	9.580	ug/L	94
45) tert-Amyl methyl ether	5.782	73	103436	8.150	ug/L	94
47) 1,2-Dichloroethane	5.864	62	58746	10.010	ug/L	99
50) Methyl cyclohexane	6.256	83	87550	9.902	ug/L	86
51) Trichloroethene	6.256	95	53842	9.216	ug/L	97
53) Dibromomethane	6.700	93	24497	11.257	ug/L #	82
54) 1,2-Dichloropropane	6.813	63	47997	9.781	ug/L	98
56) 2-Chloroethyl vinyl ether	7.515	63	17888	7.191	ug/L	96
57) Bromodichloromethane	6.875	83	63761	8.703	ug/L	100
60) 1,4-Dioxane	7.102	88	3745	424.716	ug/L #	79
61) cis-1,3-Dichloropropene	7.582	75	70874	8.407	ug/L #	91
64) Toluene	7.856	92	131828	9.825	ug/L	98
65) 4-Methyl-2-pentanone	8.301	58	8824	8.994	ug/L	89
66) Tetrachloroethene	8.292	166	58725	8.459	ug/L	94
68) trans-1,3-Dichloropropene	8.330	75	60017	9.048	ug/L	93
70) Ethyl methacrylate	8.529	69	36076	7.635	ug/L	91
71) 1,1,2-Trichloroethane	8.519	83	29965	9.442	ug/L	96
72) Chlorodibromomethane	8.727	129	43326	8.654	ug/L	98
73) 1,3-Dichloropropane	8.851	76	61377	9.532	ug/L	99
74) 1,2-Dibromoethane	9.011	107	33654	8.365	ug/L	98
76) 2-Hexanone	9.315	43	14312	10.038	ug/L	92
77) Chlorobenzene	9.665	112	144444	9.256	ug/L	96
78) Ethylbenzene	9.712	91	258388	9.798	ug/L	98
79) 1,1,1,2-Tetrachloroethane	9.750	131	49113	9.024	ug/L	97
80) p/m Xylene	9.902	106	203325	19.249	ug/L	98
81) o Xylene	10.441	106	216229	22.309	ug/L	87
82) Styrene	10.517	104	141023	9.017	ug/L	94
84) Bromoform	10.517	173	18362	5.512	ug/L	99
86) Isopropylbenzene	10.820	105	275304	10.146	ug/L	98
88) Bromobenzene	11.247	156	56857	8.659	ug/L	99
89) n-Propylbenzene	11.294	91	329049	10.653	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A02.D
 Acq On : 10 Nov 2017 08:47 am
 Operator : VOA122:PD
 Sample : WG1061830-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:10:29 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) 1,4-Dichlorobutane	11.313	55	60434	11.015	ug/L	99
91) 1,1,2,2-Tetrachloroethane	11.370	83	39131	9.714	ug/L	99
92) 4-Ethyltoluene	11.427	105	261373	10.502	ug/L	99
93) 2-Chlorotoluene	11.455	91	210460	10.548	ug/L	98
94) 1,3,5-Trimethylbenzene	11.521	105	221891	10.439	ug/L	98
95) 1,2,3-Trichloropropane	11.521	75	32628	10.091	ug/L	96
96) trans-1,4-Dichloro-2-b...	11.569	53	7260	7.151	ug/L	86
97) 4-Chlorotoluene	11.644	91	188352	10.363	ug/L	99
98) tert-Butylbenzene	11.862	119	237449	12.187	ug/L	91
101) 1,2,4-Trimethylbenzene	11.936	105	270617	12.717	ug/L	98
102) sec-Butylbenzene	12.048	105	291198	10.557	ug/L	98
103) p-Isopropyltoluene	12.203	119	248171	10.366	ug/L	98
104) 1,3-Dichlorobenzene	12.263	146	122454	9.631	ug/L	98
105) 1,4-Dichlorobenzene	12.358	146	119719	9.531	ug/L	98
106) p-Diethylbenzene	12.574	119	141517	10.192	ug/L	98
107) n-Butylbenzene	12.634	91	230360	11.012	ug/L	97
108) 1,2-Dichlorobenzene	12.781	146	107135	9.379	ug/L	98
109) 1,2,4,5-Tetramethylben...	13.368	119	194028	9.457	ug/L	98
110) 1,2-Dibromo-3-chloropr...	13.558	155	4711	7.080	ug/L	96
111) 1,3,5-Trichlorobenzene	13.592	180	75329	7.875	ug/L	95
112) Hexachlorobutadiene	14.170	225	26427	6.173	ug/L	98
113) 1,2,4-Trichlorobenzene	14.187	180	61294	7.288	ug/L	98
114) Naphthalene	14.489	128	117716	7.924	ug/L	100
115) 1,2,3-Trichlorobenzene	14.653	180	53232	7.031	ug/L	98

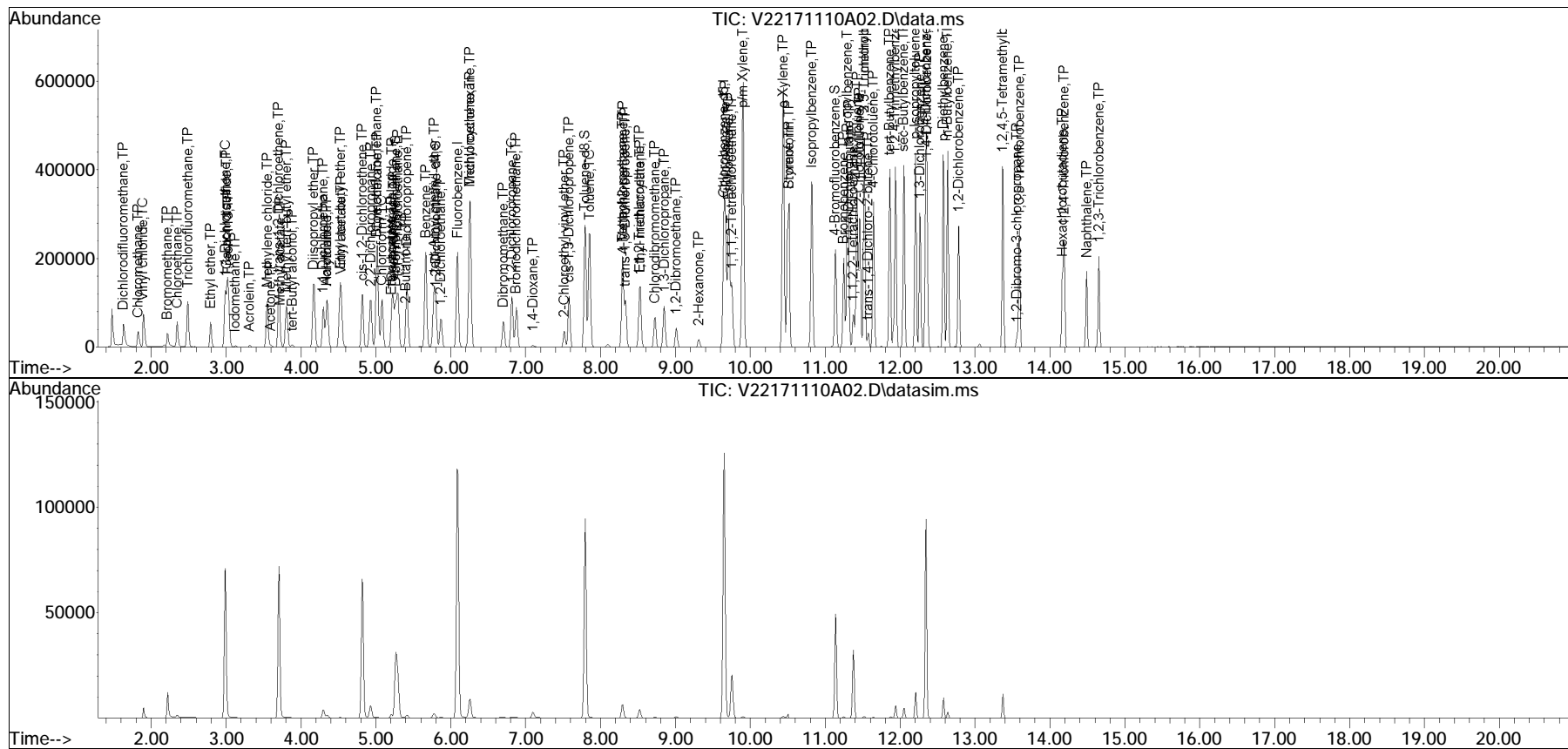
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A02.D
 Acq On : 10 Nov 2017 08:47 am
 Operator : VOA122:PD
 Sample : WG1061830-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:10:29 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

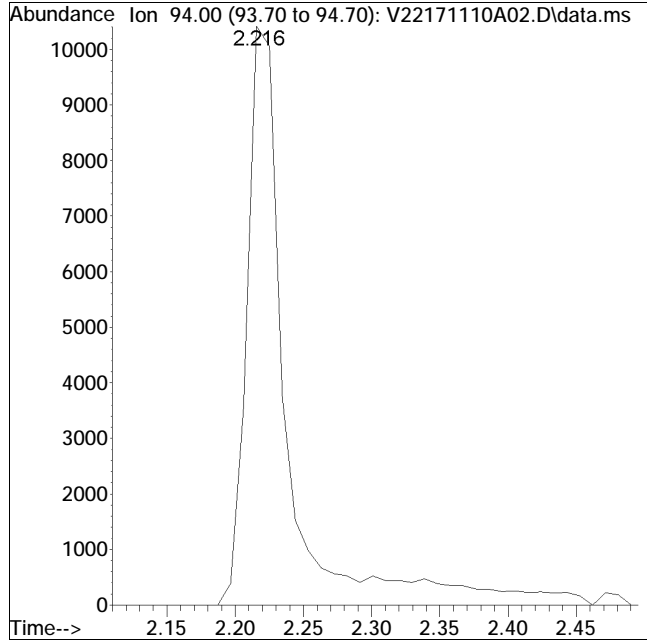
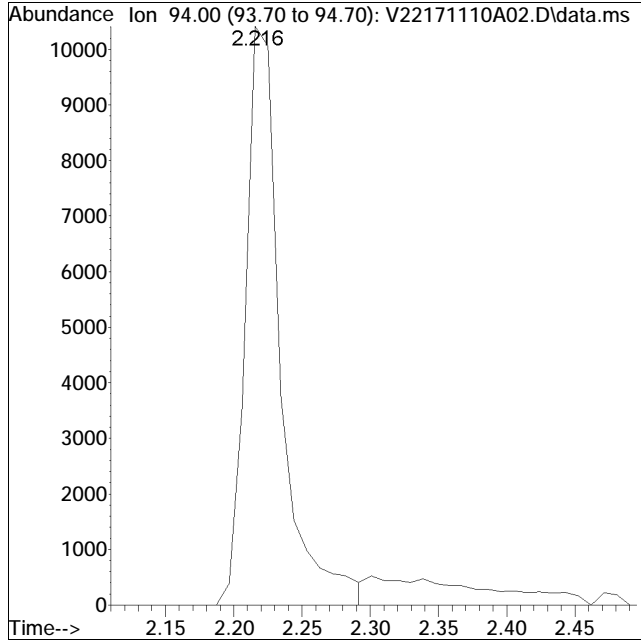
Sub List : 8260-Curve - Megamix plus Diox



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22171110A02.D Operator : VOA122:PD
Date Inj'd : 11/10/2017 8:47 am Instrument : VOA122
Sample : WG1061830-2 Quant Date : 11/10/2017 9:10 am

Compound #5: Bromomethane



Original Peak Response = 18667

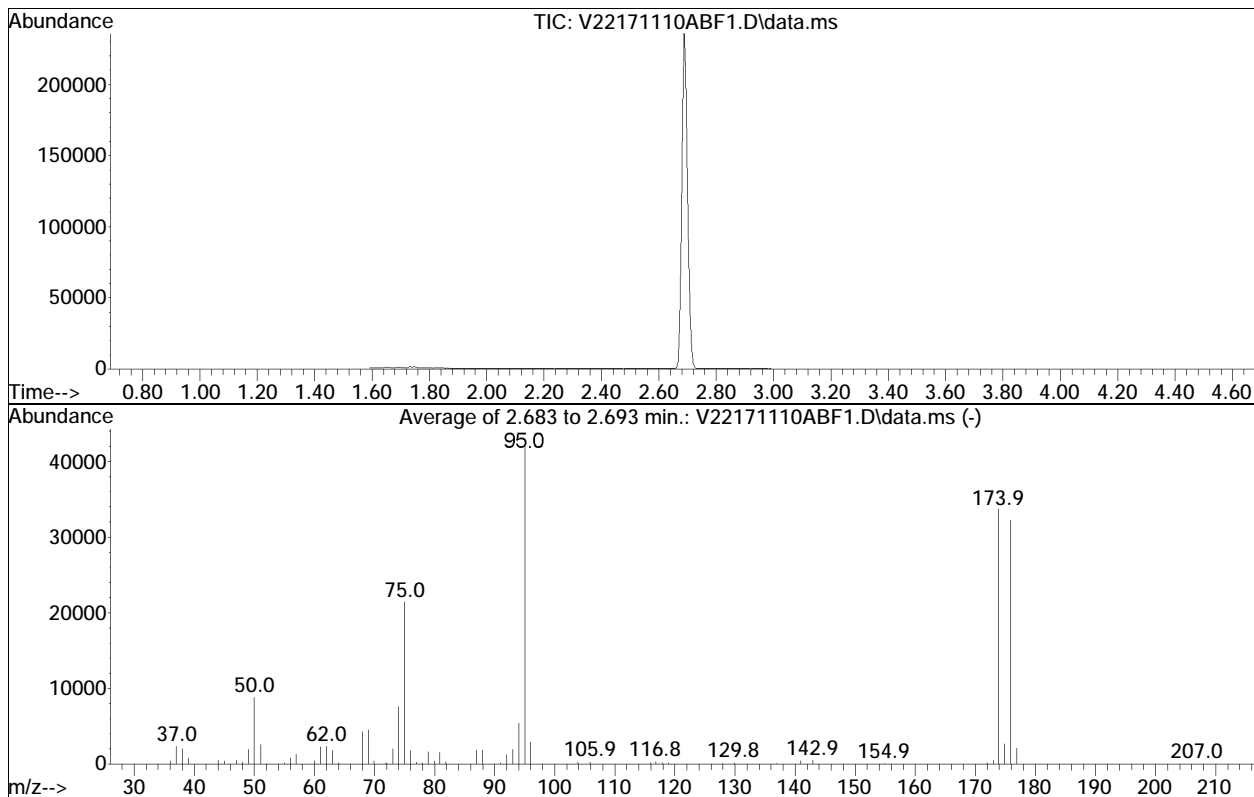
Manual Peak Response = 21805 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110ABF1.D
 Acq On : 10 Nov 2017 07:54 am
 Operator : VOA122:PD
 Sample : WG1061830-1
 Misc : WG1061830
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Sat Aug 05 11:45:14 2017



AutoFind: Scans 209, 210, 211; Background Corrected with Scan 202

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	8864	PASS
75	95	30	60	50.9	21475	PASS
95	95	100	100	100.0	42232	PASS
96	95	5	9	6.9	2935	PASS
173	174	0.00	2	1.6	525	PASS
174	95	50	100	79.8	33701	PASS
175	174	5	9	8.1	2732	PASS
176	174	95	101	95.7	32256	PASS
177	176	5	9	6.6	2116	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A05.D
 Acq On : 10 Nov 2017 10:09 am
 Operator : VOA122:PD
 Sample : WG1061830-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 10:31:41 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.091	96	207656	10.000	ug/L	0.00	
Standard Area 1 = 209053			Recovery =	99.33%			
62) Chlorobenzene-d5	9.646	117	161680	10.000	ug/L	-0.01	
Standard Area 1 = 165135			Recovery =	97.91%			
83) 1,4-Dichlorobenzene-d4	12.341	152	78156	10.000	ug/L	0.00	
Standard Area 1 = 86857			Recovery =	89.98%			
System Monitoring Compounds							
38) Dibromofluoromethane	5.266	113	52272	9.740	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.40%			
46) 1,2-Dichloroethane-d4	5.802	65	55102	11.093	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	110.93%			
63) Toluene-d8	7.790	98	209196	10.764	ug/L	-0.02	
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.64%			
87) 4-Bromofluorobenzene	11.133	95	72608	10.754	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.54%			
Target Compounds							
2) Dichlorodifluoromethane	0.000		0		N.D.		Qvalue
3) Chloromethane	0.000		0		N.D.		
4) Vinyl chloride	0.000		0		N.D.		
5) Bromomethane	0.000		0		N.D.		
6) Chloroethane	0.000		0		N.D.		
7) Trichlorofluoromethane	0.000		0		N.D.		
10) 1,1-Dichloroethene	0.000		0		N.D.		
11) Carbon disulfide	3.011	76	344		N.D.		
12) Freon-113	0.000		0		N.D.		
15) Methylene chloride	0.000		0		N.D.		
17) Acetone	0.000		0		N.D.		
18) trans-1,2-Dichloroethene	0.000		0		N.D.		
19) Methyl acetate	0.000		0		N.D.		
21) Methyl tert-butyl ether	0.000		0		N.D.		
25) 1,1-Dichloroethane	0.000		0		N.D.		
30) cis-1,2-Dichloroethene	0.000		0		N.D.		
32) Bromochloromethane	0.000		0		N.D.		
33) Cyclohexane	0.000		0		N.D.		
34) Chloroform	0.000		0		N.D.		
36) Carbon tetrachloride	0.000		0		N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A05.D
 Acq On : 10 Nov 2017 10:09 am
 Operator : VOA122:PD
 Sample : WG1061830-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 10:31:41 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	0.000		0		N.D.	
41) 2-Butanone	0.000		0		N.D.	
44) Benzene	0.000		0		N.D.	
47) 1,2-Dichloroethane	0.000		0		N.D.	
50) Methyl cyclohexane	0.000		0		N.D.	
51) Trichloroethene	0.000		0		N.D.	
54) 1,2-Dichloropropane	0.000		0		N.D.	
57) Bromodichloromethane	0.000		0		N.D.	
60) 1,4-Dioxane	0.000		0		N.D.	
61) cis-1,3-Dichloropropene	0.000		0		N.D.	
64) Toluene	0.000		0		N.D.	
65) 4-Methyl-2-pentanone	0.000		0		N.D.	
66) Tetrachloroethene	0.000		0		N.D.	
68) trans-1,3-Dichloropropene	0.000		0		N.D.	
71) 1,1,2-Trichloroethane	0.000		0		N.D.	
72) Chlorodibromomethane	0.000		0		N.D.	
74) 1,2-Dibromoethane	0.000		0		N.D.	
76) 2-Hexanone	0.000		0		N.D.	
77) Chlorobenzene	0.000		0		N.D.	
78) Ethylbenzene	9.646	91	271		N.D.	
80) p/m Xylene	0.000		0		N.D.	
81) o Xylene	0.000		0		N.D.	
82) Styrene	0.000		0		N.D.	
84) Bromoform	0.000		0		N.D.	
86) Isopropylbenzene	0.000		0		N.D.	
91) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
104) 1,3-Dichlorobenzene	0.000		0		N.D.	
105) 1,4-Dichlorobenzene	0.000		0		N.D.	
108) 1,2-Dichlorobenzene	0.000		0		N.D.	
110) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
113) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
115) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

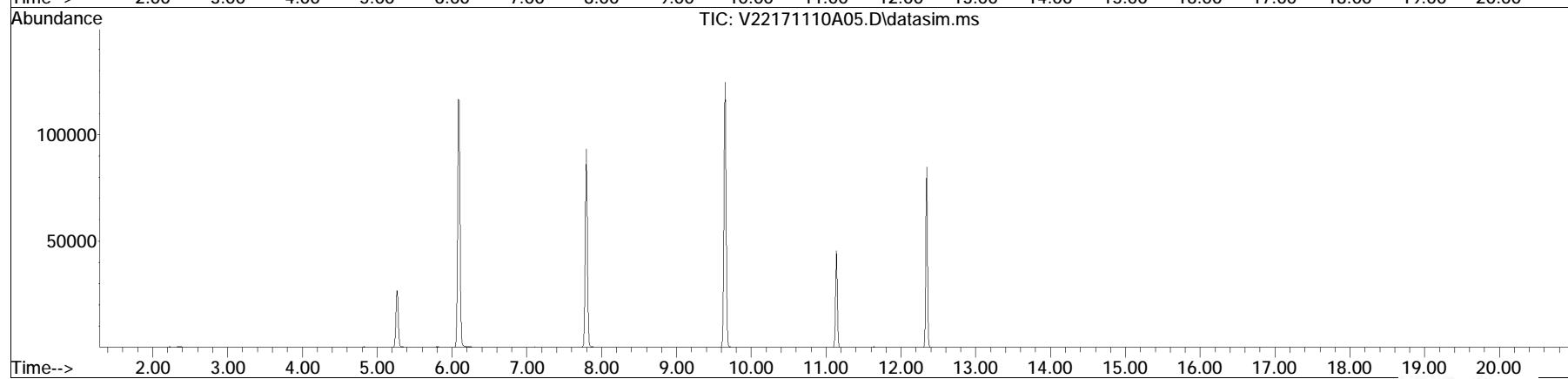
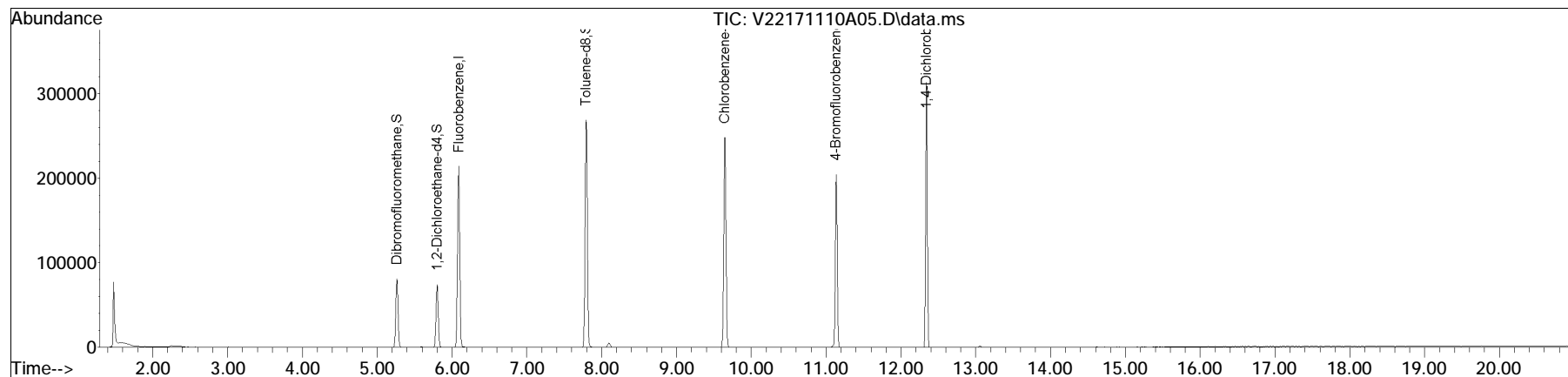
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
Data File : V22171110A05.D
Acq On : 10 Nov 2017 10:09 am
Operator : VOA122:PD
Sample : WG1061830-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 10:31:41 2017
Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Sat Aug 05 11:45:14 2017
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox71110A\V22171110A02.D•



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22171110A05.D Operator : VOA122:PD
Date Inj'd : 11/10/2017 10:09 am Instrument : VOA122
Sample : WG1061830-5,31,10,10 Quant Date : 11/10/2017 10:31 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A02.D
 Acq On : 10 Nov 2017 08:47 am
 Operator : VOA122:PD
 Sample : WG1061830-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:10:29 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.091	96	209053	10.000	ug/L	0.00	
62) Chlorobenzene-d5	9.646	117	165135	10.000	ug/L	-0.01	
83) 1,4-Dichlorobenzene-d4	12.341	152	86857	10.000	ug/L	0.00	
System Monitoring Compounds							
38) Dibromofluoromethane	5.265	113	52135	9.650	ug/L	0.00	
Spiked Amount	10.000		Range 70 - 130	Recovery =	96.50%		
46) 1,2-Dichloroethane-d4	5.802	65	54462	10.891	ug/L	-0.01	
Spiked Amount	10.000		Range 70 - 130	Recovery =	108.91%		
63) Toluene-d8	7.790	98	212761	10.718	ug/L	-0.02	
Spiked Amount	10.000		Range 70 - 130	Recovery =	107.18%		
87) 4-Bromofluorobenzene	11.133	95	79654	10.616	ug/L	-0.01	
Spiked Amount	10.000		Range 70 - 130	Recovery =	106.16%		
Target Compounds							
2) Dichlorodifluoromethane	1.628	85	47626	11.374	ug/L	98	Qvalue
3) Chloromethane	1.827	50	35651	7.474	ug/L	99	
4) Vinyl chloride	1.894	62	67123	11.243	ug/L	99	
5) Bromomethane	2.216	94	21805M1	5.579	ug/L		
6) Chloroethane	2.348	64	42744	11.903	ug/L	99	
7) Trichlorofluoromethane	2.490	101	82176	9.993	ug/L	99	
10) 1,1-Dichloroethene	2.992	96	43614	8.592	ug/L	85	
11) Carbon disulfide	3.011	76	116372	8.925	ug/L	100	
12) Freon-113	3.030	101	45578	10.269	ug/L	94	
15) Methylene chloride	3.551	84	47218	8.729	ug/L	85	
17) Acetone	3.598	43	5677	8.689	ug/L	94	
18) trans-1,2-Dichloroethene	3.703	96	51122	8.718	ug/L	92	
19) Methyl acetate	3.722	43	17343	10.201	ug/L	94	
21) Methyl tert-butyl ether	3.807	73	99866	7.963	ug/L	93	
25) 1,1-Dichloroethane	4.299	63	90518	9.761	ug/L	98	
30) cis-1,2-Dichloroethene	4.820	96	55101	8.759	ug/L	91	
32) Bromochloromethane	5.010	128	23459	8.858	ug/L	# 85	
33) Cyclohexane	5.019	56	83526	10.737	ug/L	86	
34) Chloroform	5.085	83	88846	9.219	ug/L	97	
36) Carbon tetrachloride	5.218	117	74476	9.791	ug/L	97	
39) 1,1,1-Trichloroethane	5.294	97	84297	9.202	ug/L	95	
41) 2-Butanone	5.398	43	9401	9.844	ug/L	99	
44) Benzene	5.668	78	216614	9.580	ug/L	94	
47) 1,2-Dichloroethane	5.864	62	58746	10.010	ug/L	99	

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A02.D
 Acq On : 10 Nov 2017 08:47 am
 Operator : VOA122:PD
 Sample : WG1061830-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:10:29 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) Methyl cyclohexane	6.256	83	87550	9.902	ug/L	86
51) Trichloroethene	6.256	95	53842	9.216	ug/L	97
54) 1,2-Dichloropropane	6.813	63	47997	9.781	ug/L	98
57) Bromodichloromethane	6.875	83	63761	8.703	ug/L	100
60) 1,4-Dioxane	7.102	88	3745	424.716	ug/L #	79
61) cis-1,3-Dichloropropene	7.582	75	70874	8.407	ug/L #	91
64) Toluene	7.856	92	131828	9.825	ug/L	98
65) 4-Methyl-2-pentanone	8.301	58	8824	8.994	ug/L	89
66) Tetrachloroethene	8.292	166	58725	8.459	ug/L	94
68) trans-1,3-Dichloropropene	8.330	75	60017	9.048	ug/L	93
71) 1,1,2-Trichloroethane	8.519	83	29965	9.442	ug/L	96
72) Chlorodibromomethane	8.727	129	43326	8.654	ug/L	98
74) 1,2-Dibromoethane	9.011	107	33654	8.365	ug/L	98
76) 2-Hexanone	9.315	43	14312	10.038	ug/L	92
77) Chlorobenzene	9.665	112	144444	9.256	ug/L	96
78) Ethylbenzene	9.712	91	258388	9.798	ug/L	98
80) p/m Xylene	9.902	106	203325	19.249	ug/L	98
81) o Xylene	10.441	106	216229	22.309	ug/L	87
82) Styrene	10.517	104	141023	9.017	ug/L	94
84) Bromoform	10.517	173	18362	5.512	ug/L	99
86) Isopropylbenzene	10.820	105	275304	10.146	ug/L	98
91) 1,1,2,2-Tetrachloroethane	11.370	83	39131	9.714	ug/L	99
104) 1,3-Dichlorobenzene	12.263	146	122454	9.631	ug/L	98
105) 1,4-Dichlorobenzene	12.358	146	119719	9.531	ug/L	98
108) 1,2-Dichlorobenzene	12.781	146	107135	9.379	ug/L	98
110) 1,2-Dibromo-3-chloropr...	13.558	155	4711	7.080	ug/L	96
113) 1,2,4-Trichlorobenzene	14.187	180	61294	7.288	ug/L	98
115) 1,2,3-Trichlorobenzene	14.653	180	53232	7.031	ug/L	98

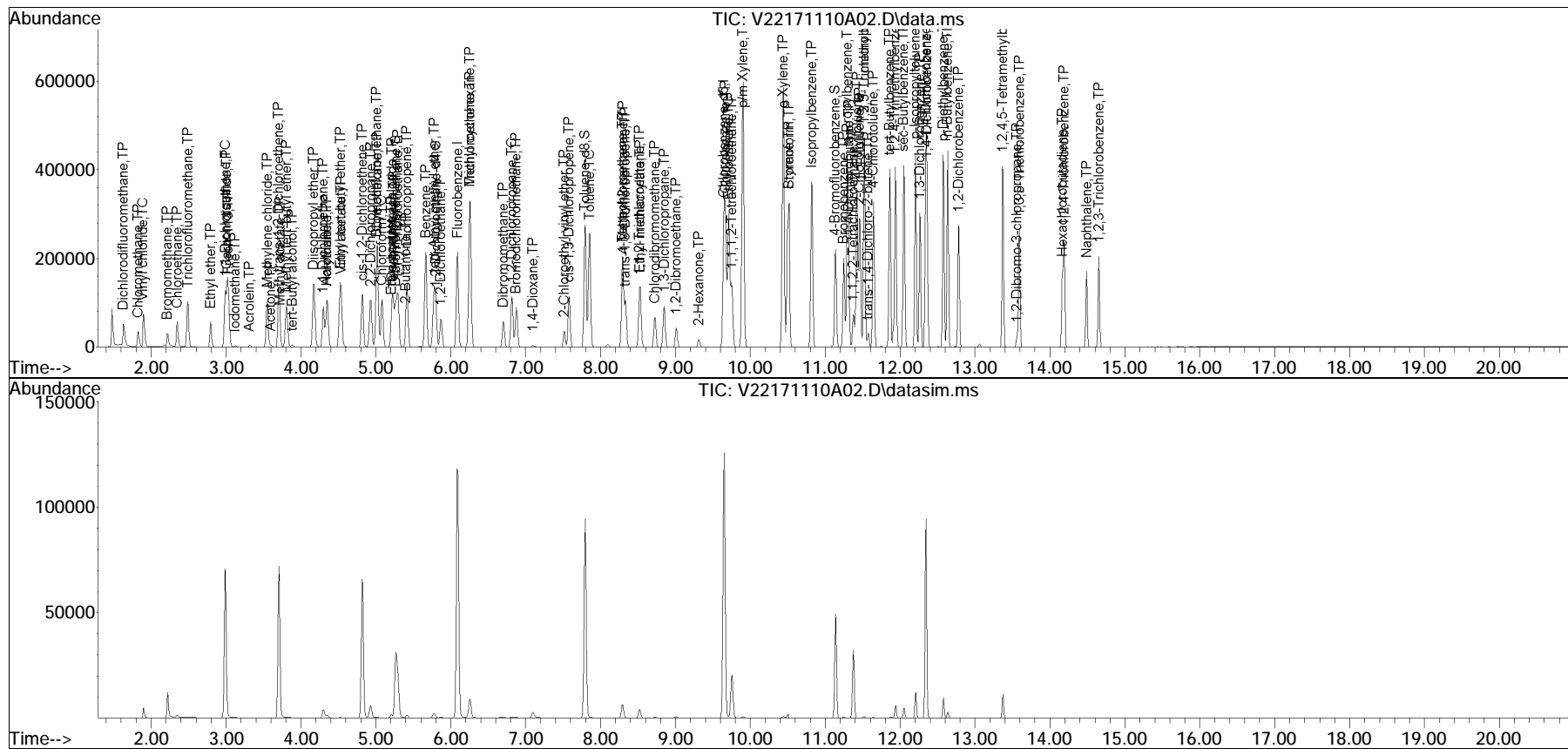
(#) = qualifier out of range (m) = manual integration (+) = signals summed

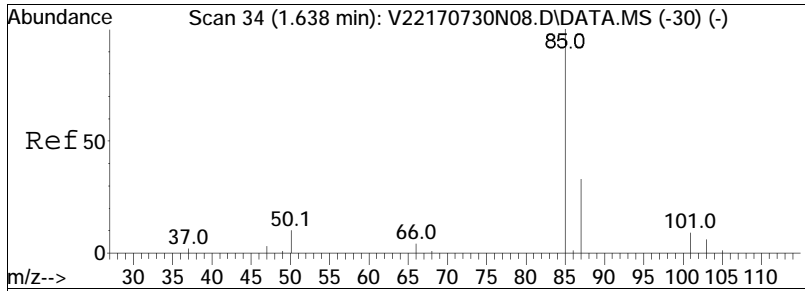
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A02.D
 Acq On : 10 Nov 2017 08:47 am
 Operator : VOA122:PD
 Sample : WG1061830-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 09:10:29 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

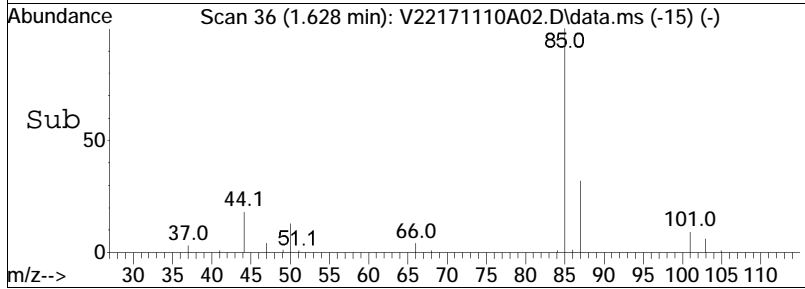
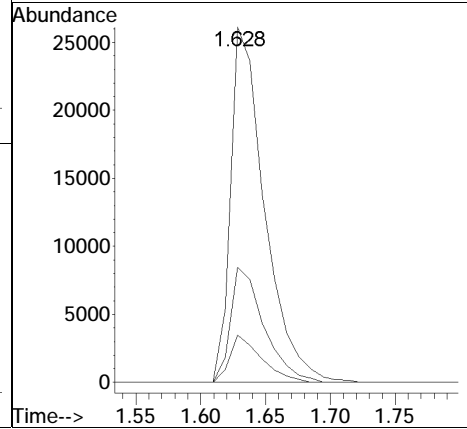
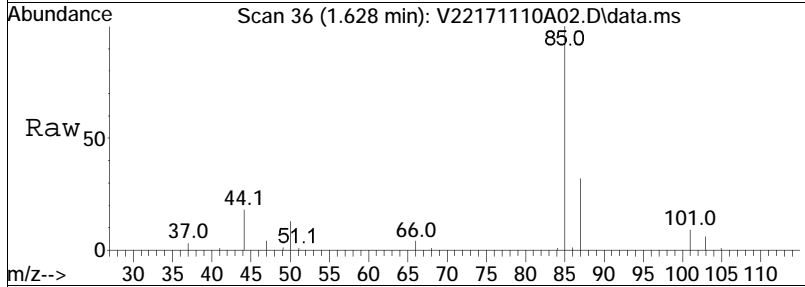
Sub List : 8260-Curve - Megamix plus Diox

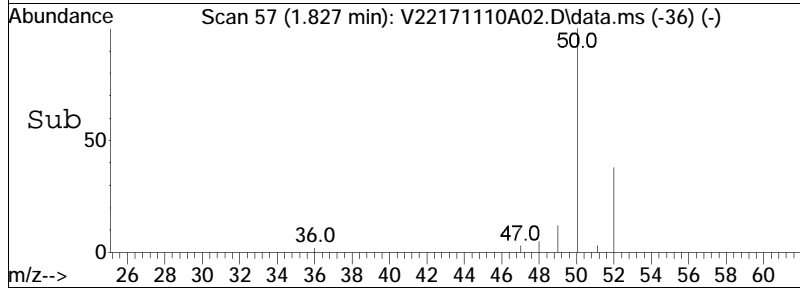
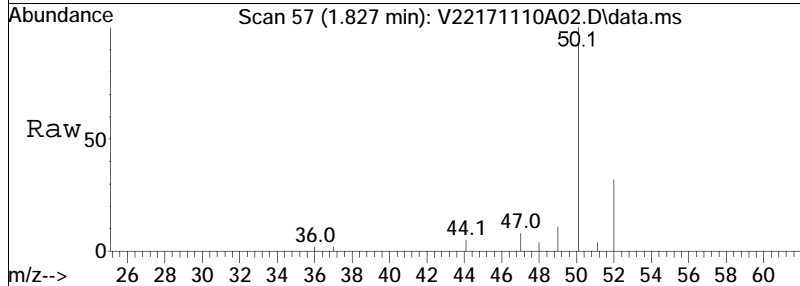
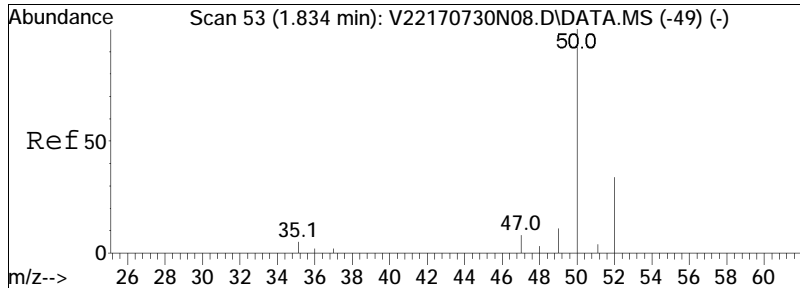




#2
 Dichlorodifluoromethane
 Concen: 11.37 ug/L
 RT: 1.628 min Scan# 36
 Delta R.T. 0.000 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

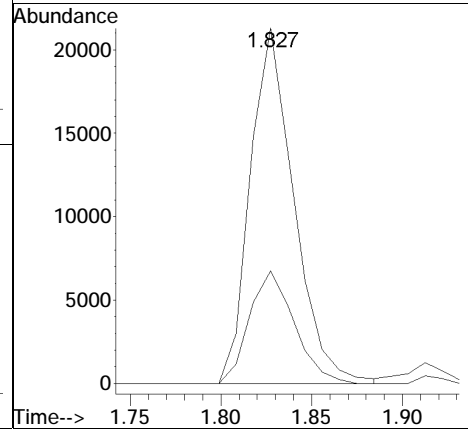
Tgt Ion	Resp	Lower	Upper
85	47626		
87	31.9	20.7	42.9
50	12.5	6.8	14.2

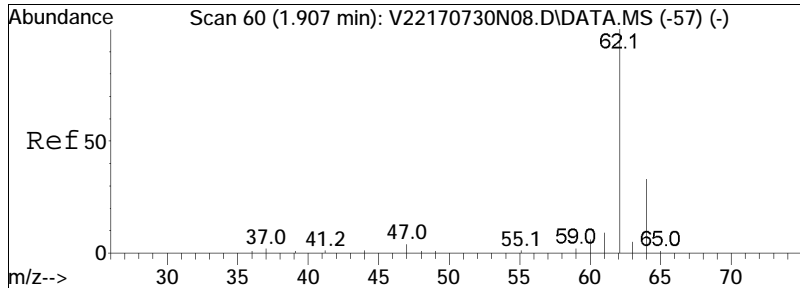




#3
 Chloromethane
 Concen: 7.47 ug/L
 RT: 1.827 min Scan# 57
 Delta R.T. 0.003 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

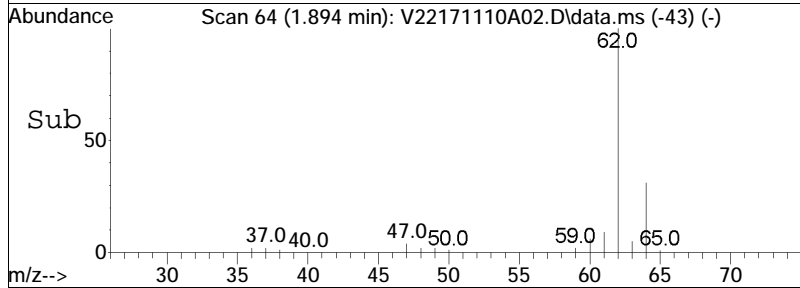
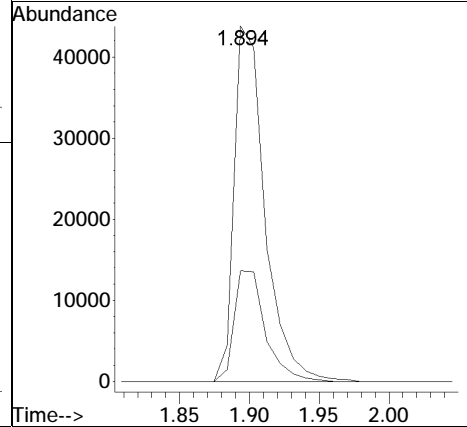
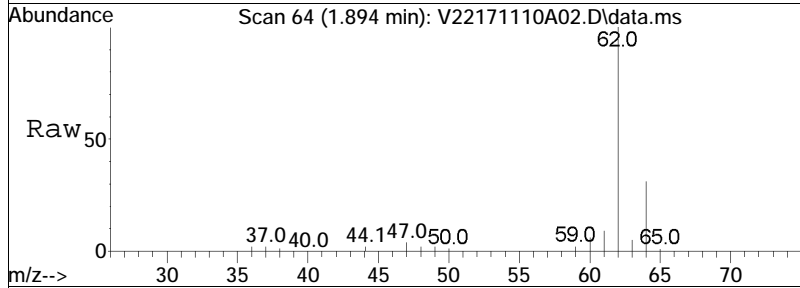
Tgt Ion:	Resp:	Lower	Upper
50	100		
52	32.5	12.8	52.8

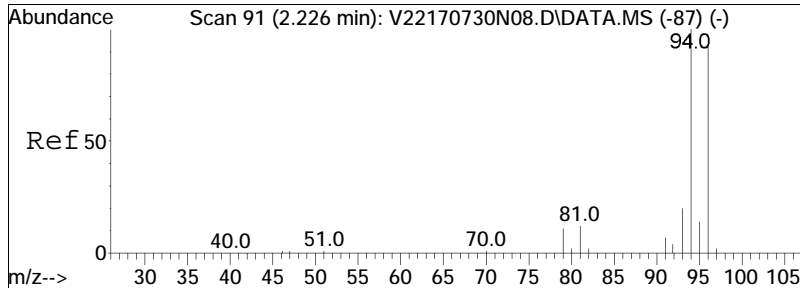




#4
 Vinyl chloride
 Concen: 11.24 ug/L
 RT: 1.894 min Scan# 64
 Delta R.T. -0.002 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

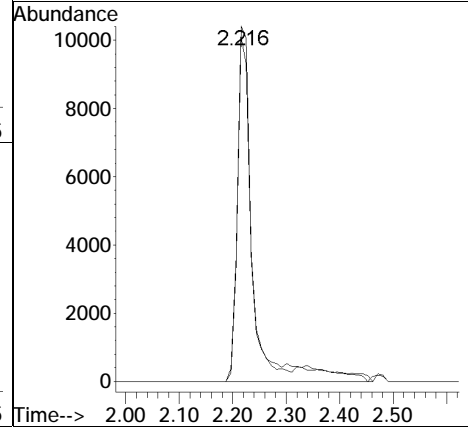
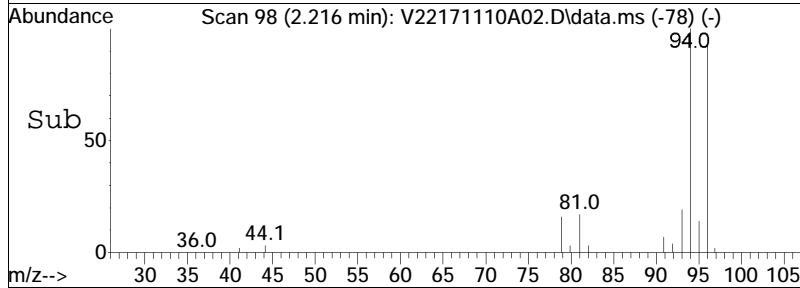
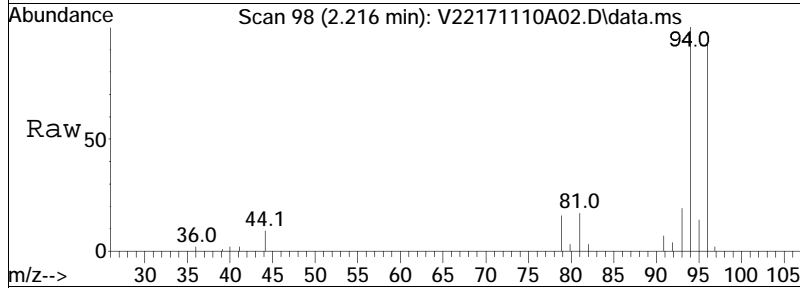
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
62	100		
64	31.6	12.0	52.0

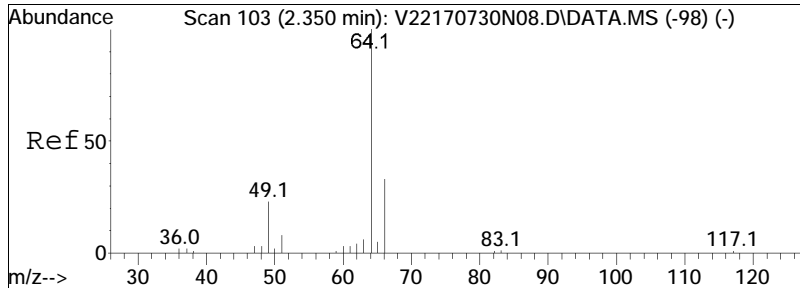




#5
 Bromomethane
 Concen: 5.58 ug/L M1
 RT: 2.216 min Scan# 98
 Delta R.T. -0.010 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

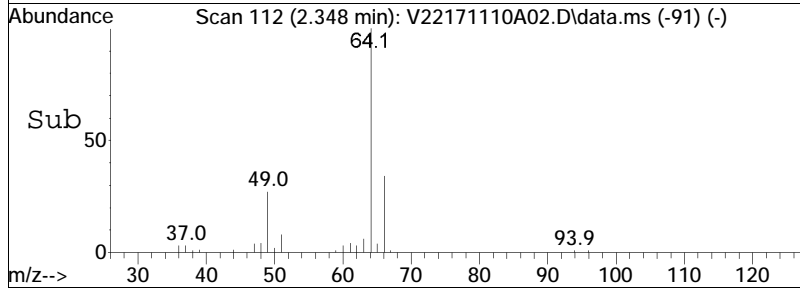
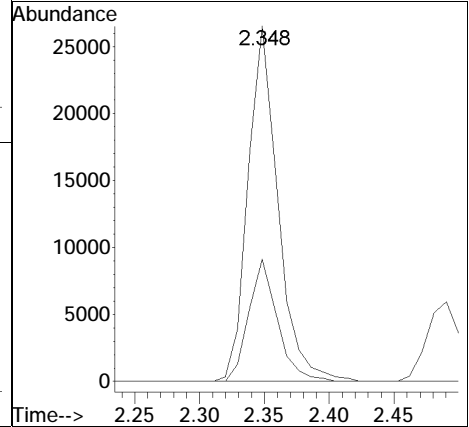
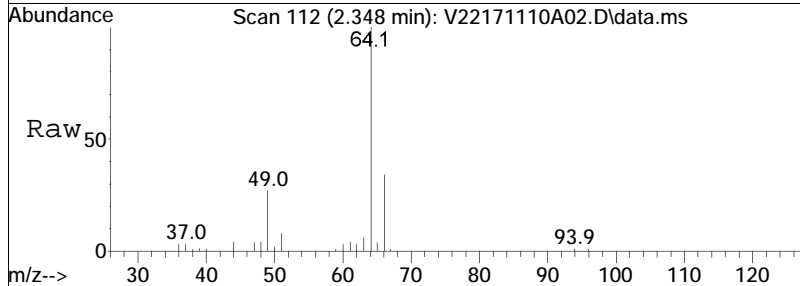
Tgt Ion: 94 Resp: 21805
 Ion Ratio Lower Upper
 94 100
 96 81.8 72.8 112.8

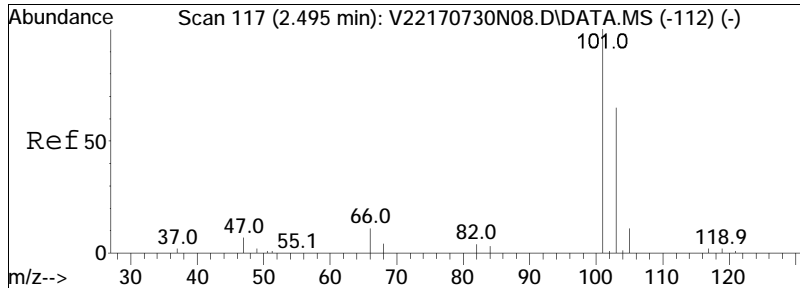




#6
 Chloroethane
 Concen: 11.90 ug/L
 RT: 2.348 min Scan# 112
 Delta R.T. -0.002 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

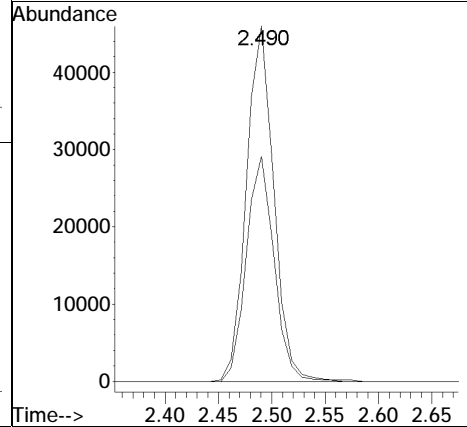
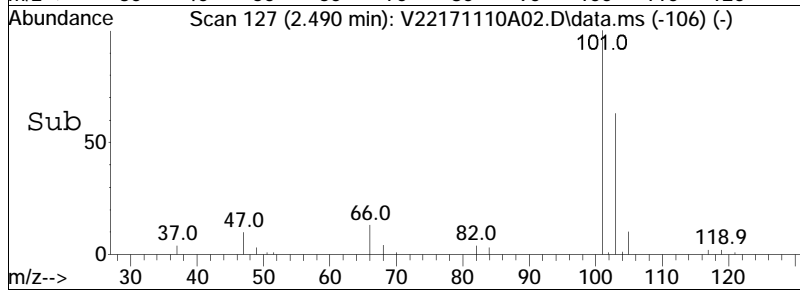
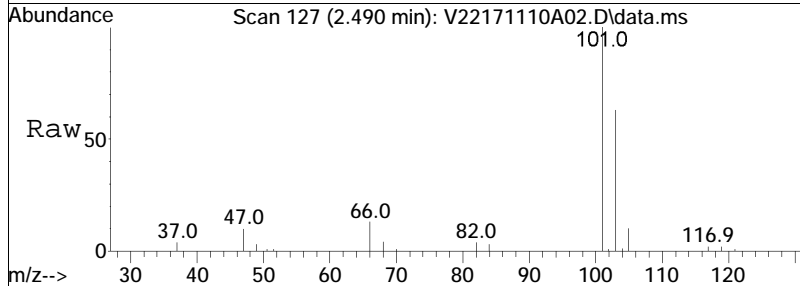
Tgt Ion	Resp	Lower	Upper
64	100		
66	32.9	12.2	52.2

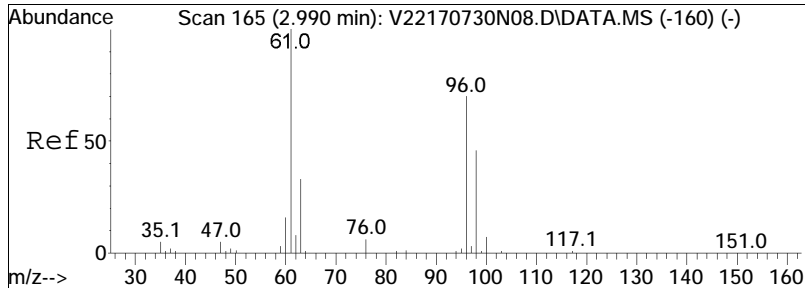




#7
 Trichlorofluoromethane
 Concen: 9.99 ug/L
 RT: 2.490 min Scan# 127
 Delta R.T. -0.005 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

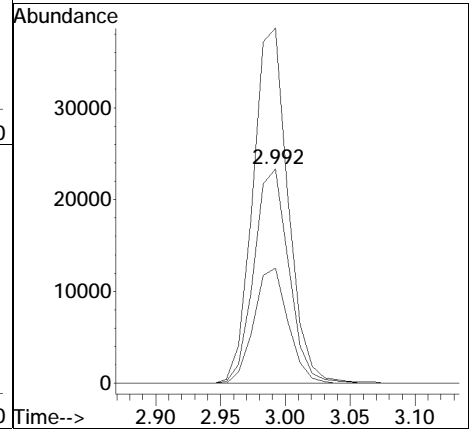
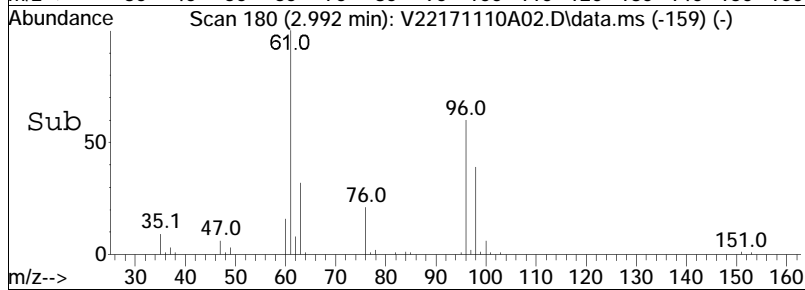
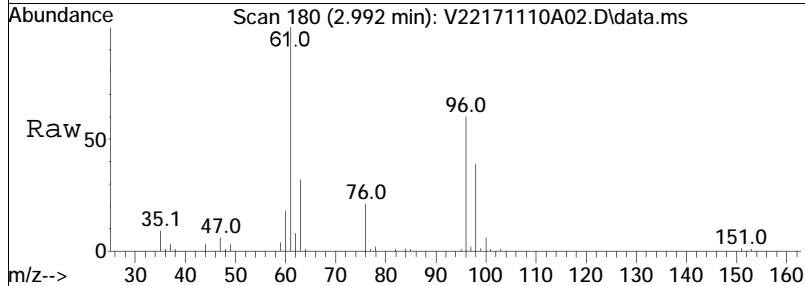
Tgt Ion	Resp	Lower	Upper
101	100		
103	64.0	51.6	77.4

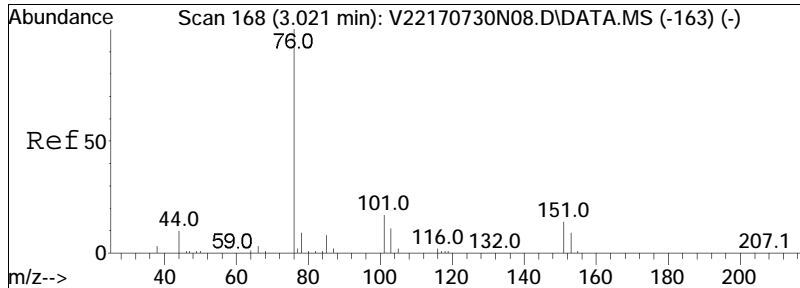




#10
 1,1-Dichloroethene
 Concen: 8.59 ug/L
 RT: 2.992 min Scan# 180
 Delta R.T. 0.002 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

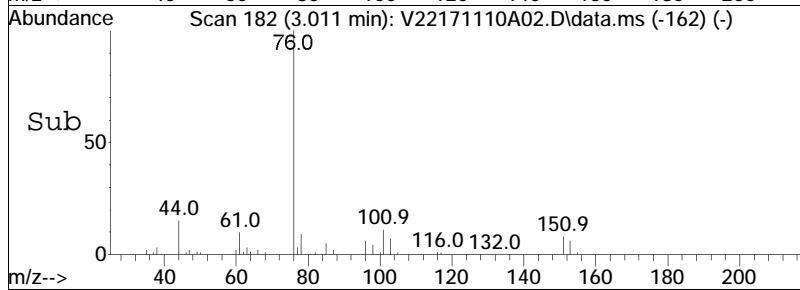
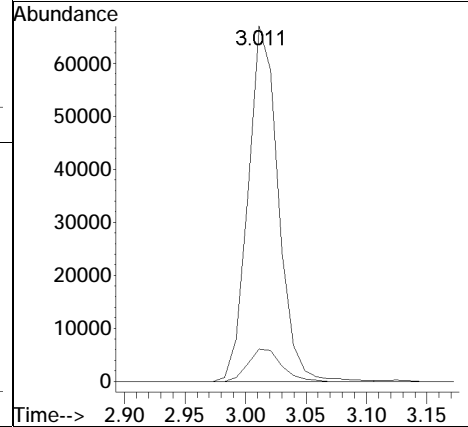
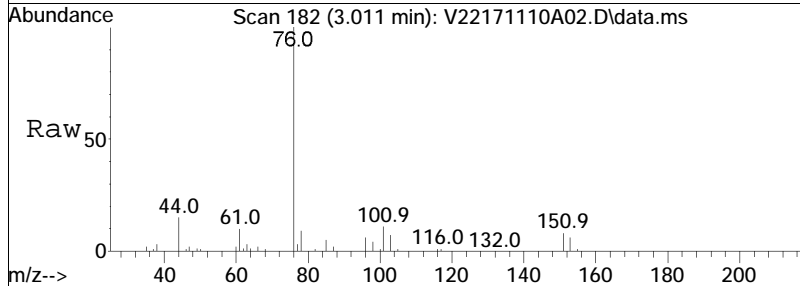
Tgt Ion	Resp	Lower	Upper
96	43614		
61	167.4	117.0	175.4
63	52.9	37.8	56.6

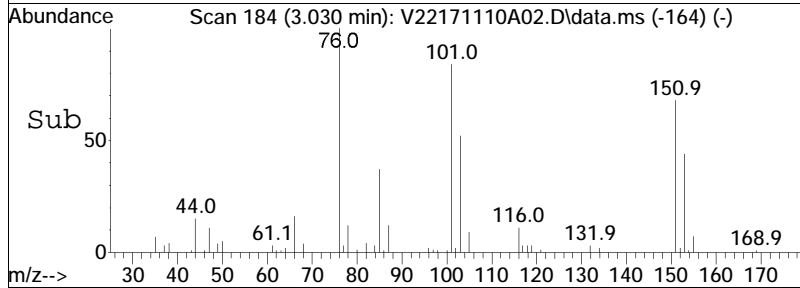
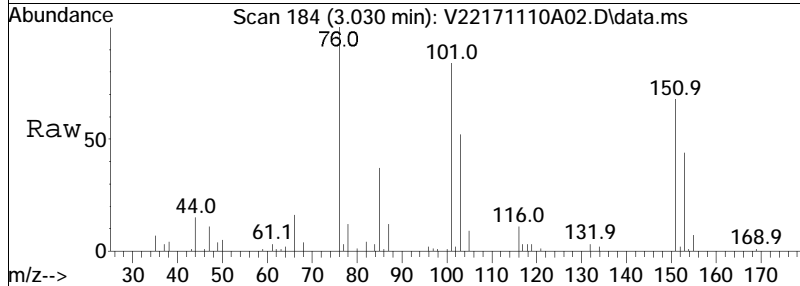
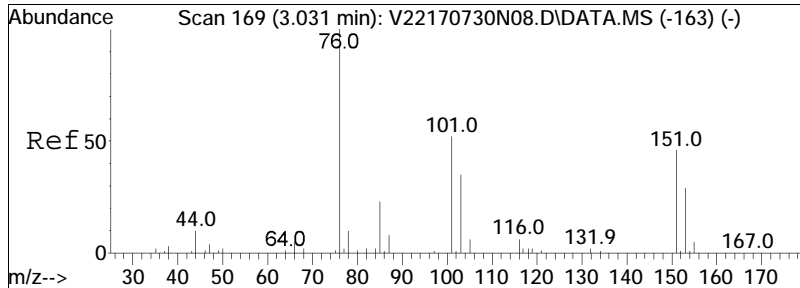




#11
 Carbon disulfide
 Concen: 8.93 ug/L
 RT: 3.011 min Scan# 182
 Delta R.T. -0.010 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

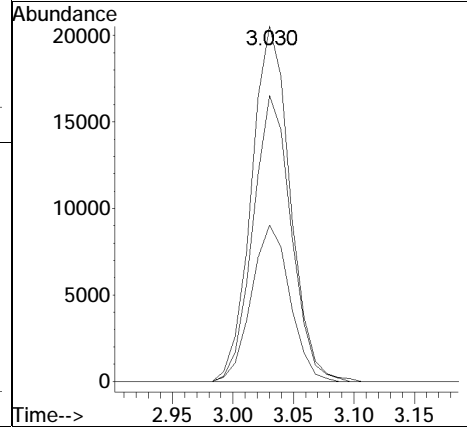
Tgt Ion: 76 Resp: 116372
 Ion Ratio Lower Upper
 76 100
 78 10.1 6.4 13.4

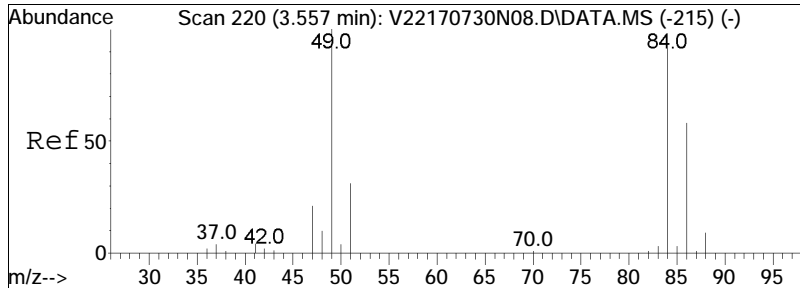




#12
 Freon-113
 Concen: 10.27 ug/L
 RT: 3.030 min Scan# 184
 Delta R.T. -0.012 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

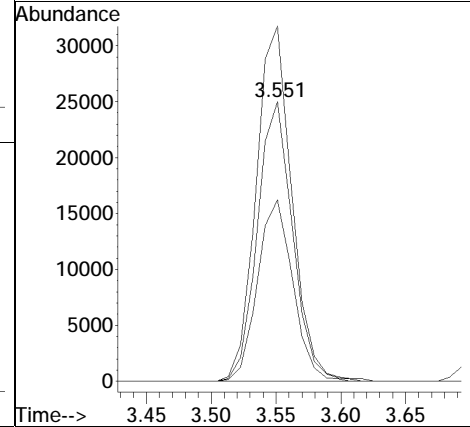
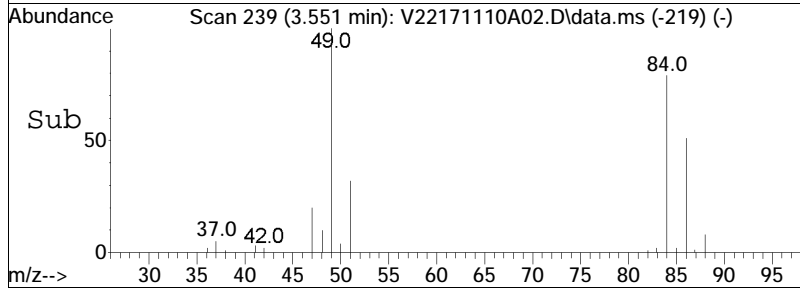
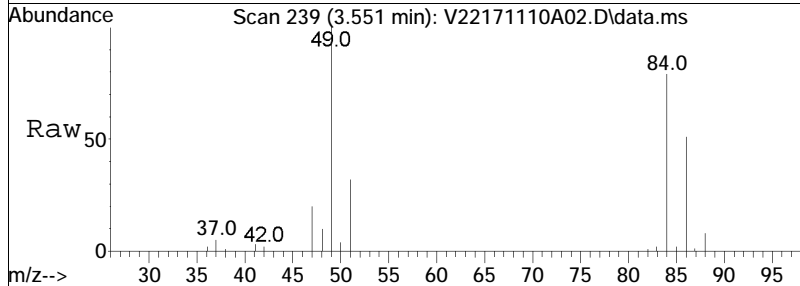
Tgt Ion	101	151	85	Resp:	45578	Lower	Upper
Ion Ratio	100	79.5	43.8			68.5	102.7
						33.1	49.7

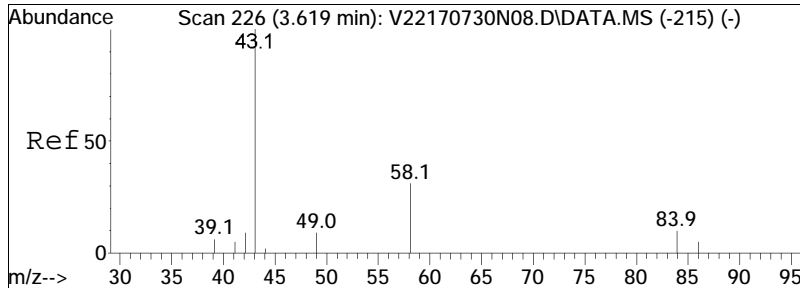




#15
 Methylene chloride
 Concen: 8.73 ug/L
 RT: 3.551 min Scan# 239
 Delta R.T. -0.006 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

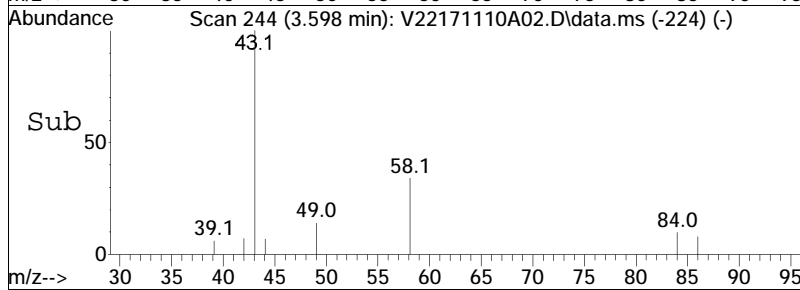
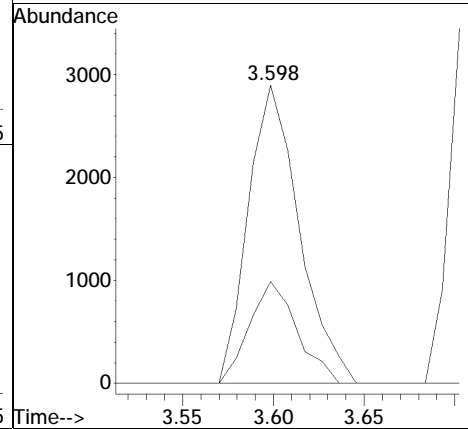
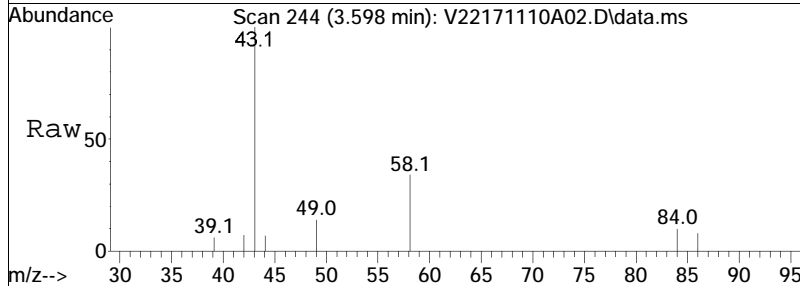
Tgt Ion	Resp	Lower	Upper
84	100		
86	65.2	41.5	86.3
49	129.2	68.8	143.0

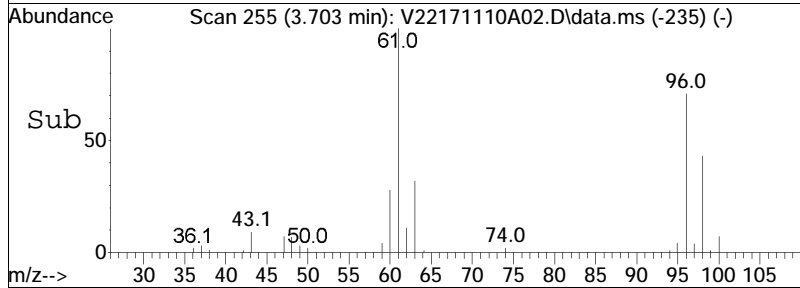
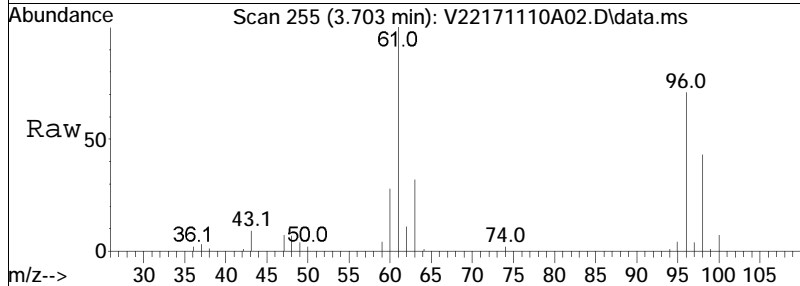
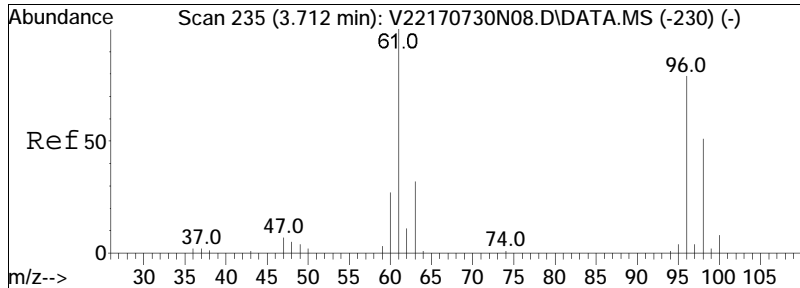




#17
 Acetone
 Concen: 8.69 ug/L
 RT: 3.598 min Scan# 244
 Delta R.T. -0.011 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

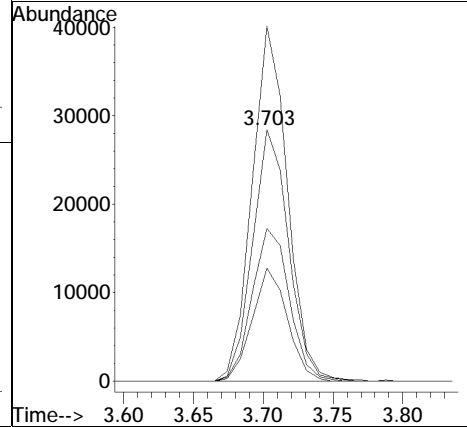
Tgt Ion	Resp	Lower	Upper
43	100		
58	31.8	23.1	34.7

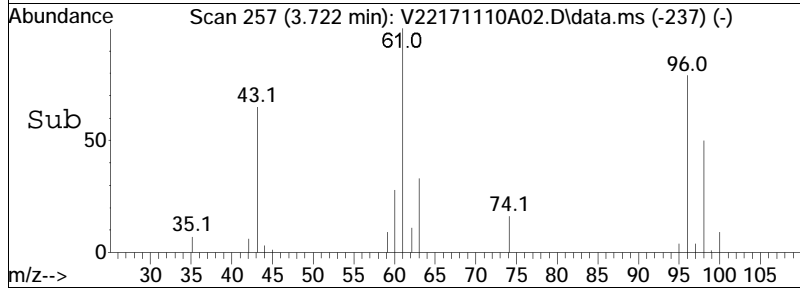
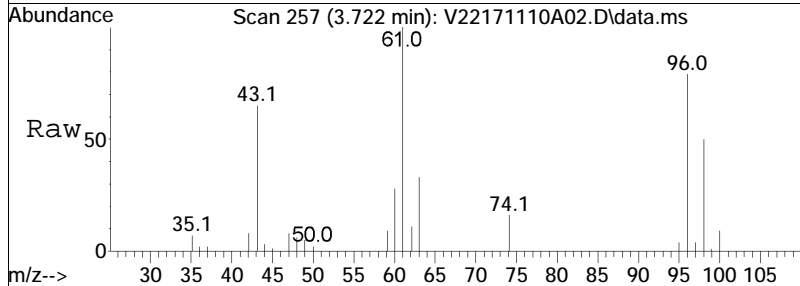
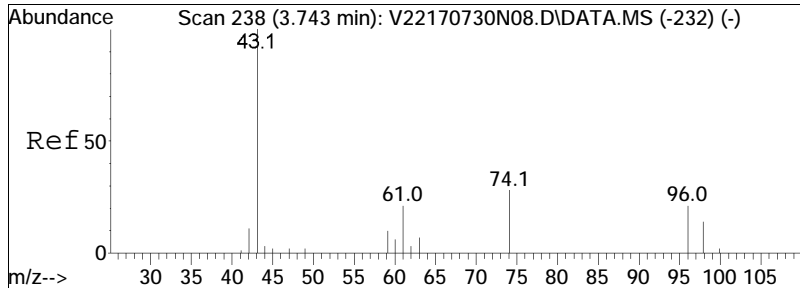




#18
 trans-1,2-Dichloroethene
 Concen: 8.72 ug/L
 RT: 3.703 min Scan# 255
 Delta R.T. -0.009 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

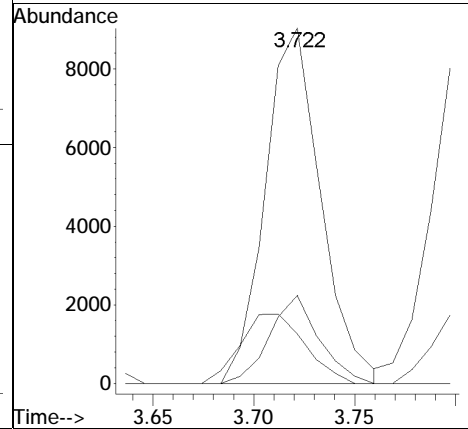
Tgt Ion	Resp	Lower	Upper
96	100		
61	138.8	81.6	169.6
98	62.8	41.8	86.8
63	44.1	26.3	54.7

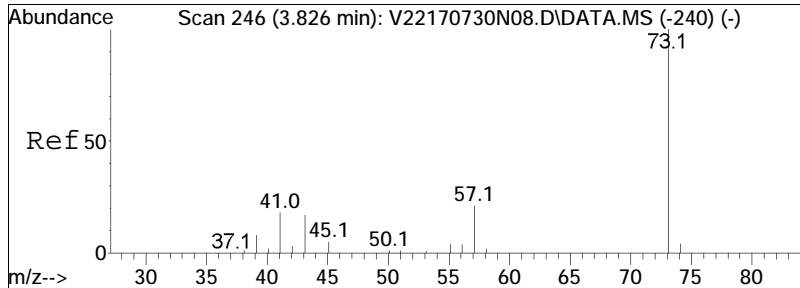




#19
 Methyl acetate
 Concen: 10.20 ug/L
 RT: 3.722 min Scan# 257
 Delta R.T. -0.011 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

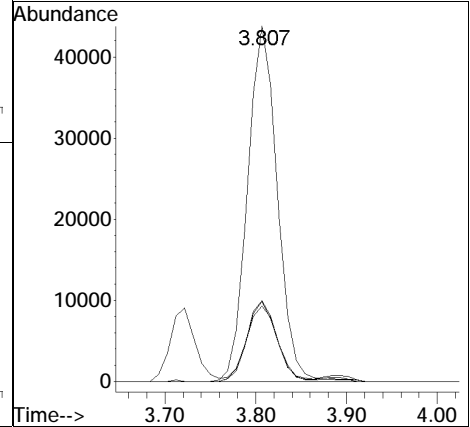
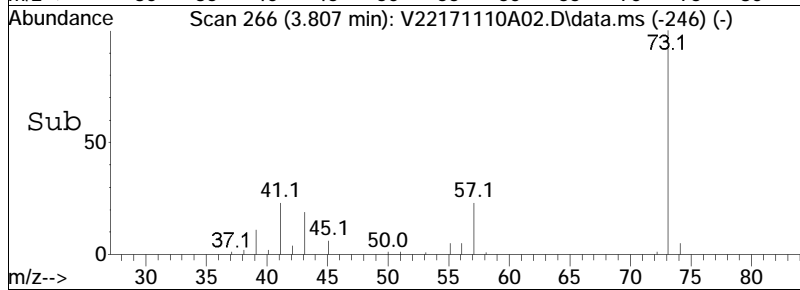
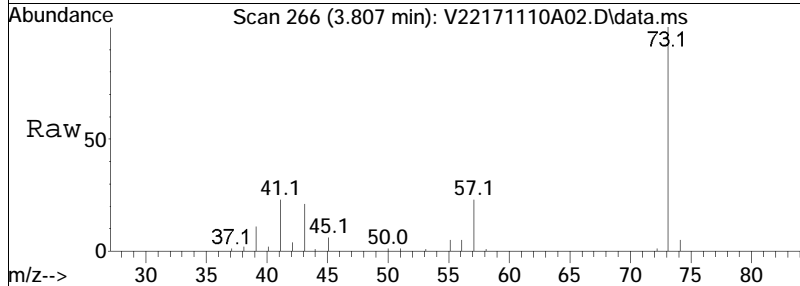
Tgt Ion:	43	74	59	Resp:	17343	Lower	Upper
Ion Ratio	100	22.0	22.7			21.8	32.6
						18.1	27.1

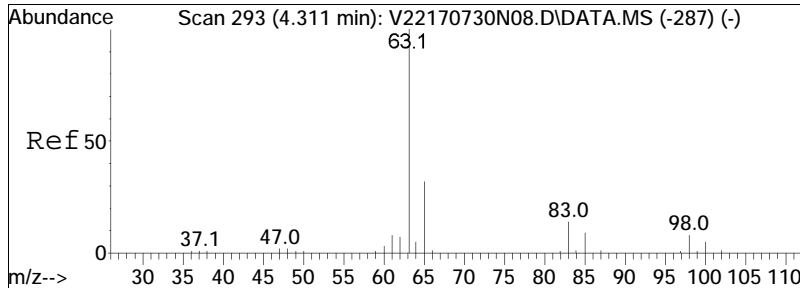




#21
 Methyl tert-butyl ether
 Concen: 7.96 ug/L
 RT: 3.807 min Scan# 266
 Delta R.T. -0.008 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

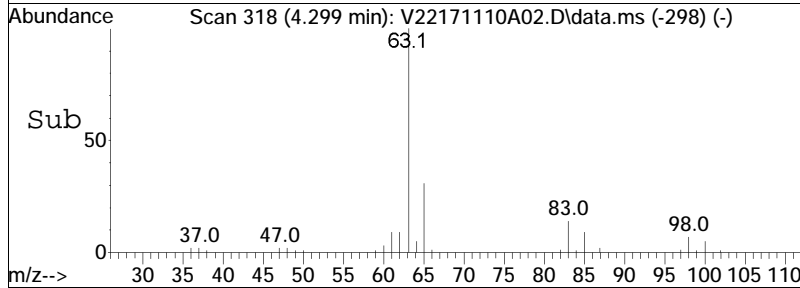
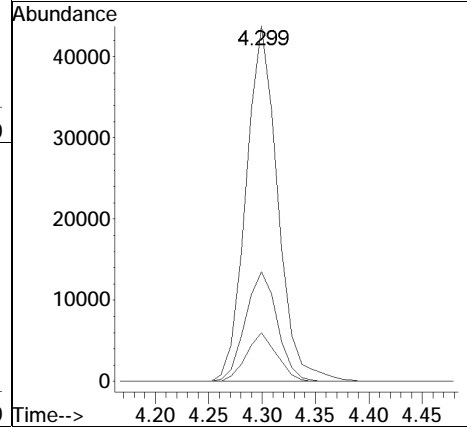
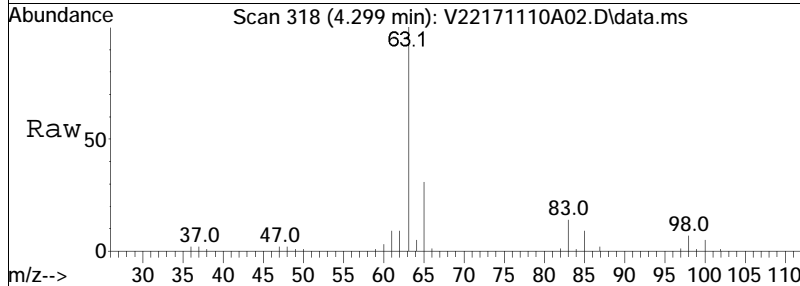
Tgt Ion	Resp	Lower	Upper
73	99866		
57	22.9	13.6	28.2
43	22.3	12.7	26.5
41	22.7	11.4	23.8

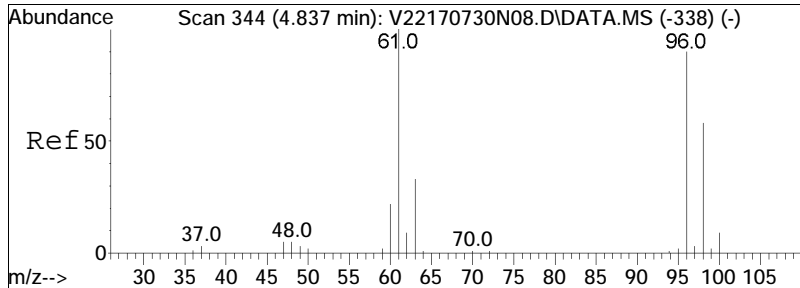




#25
 1,1-Dichloroethane
 Concen: 9.76 ug/L
 RT: 4.299 min Scan# 318
 Delta R.T. -0.012 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

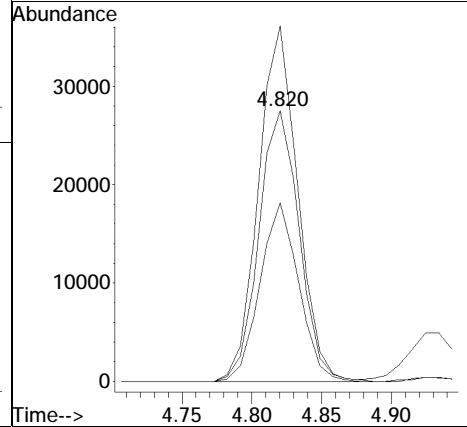
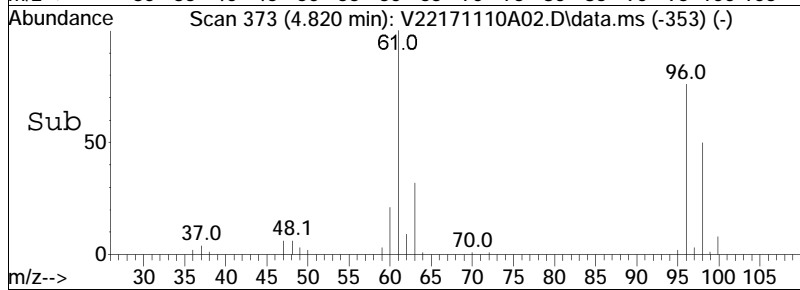
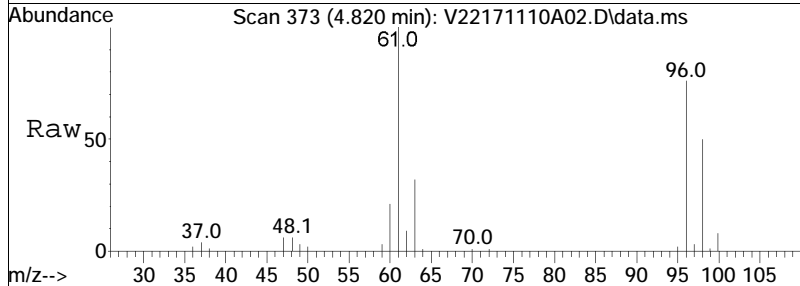
Tgt Ion:	Resp:	Lower	Upper
63	100		
65	31.0	11.9	51.9
83	13.1	0.0	34.2

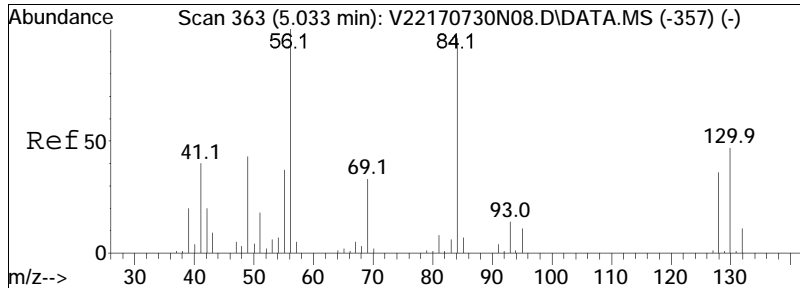




#30
 cis-1,2-Dichloroethene
 Concen: 8.76 ug/L
 RT: 4.820 min Scan# 373
 Delta R.T. -0.007 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

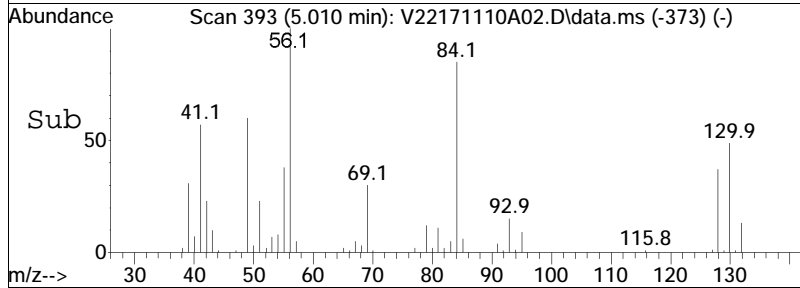
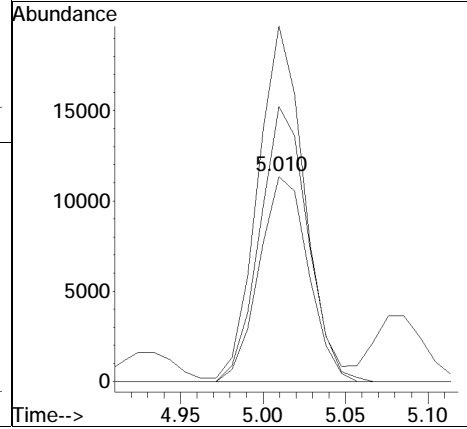
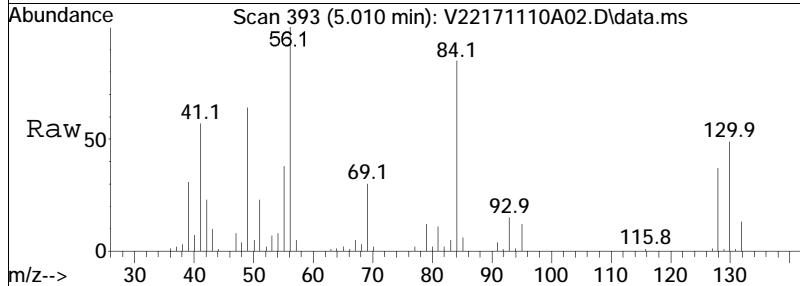
Tgt Ion:	96	Resp:	55101
Ion Ratio	Lower	Upper	
96	100		
61	127.8	90.3	135.5
98	63.5	50.8	76.2

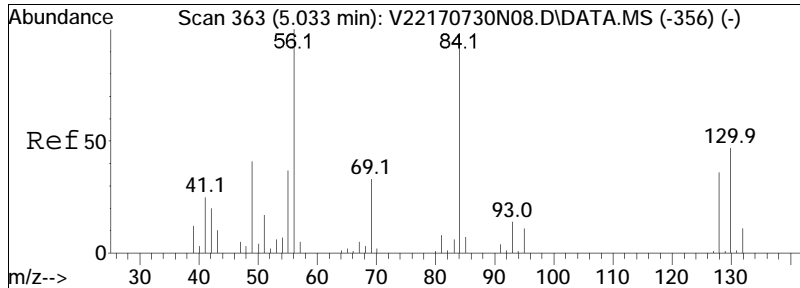




#32
 Bromochloromethane
 Concen: 8.86 ug/L
 RT: 5.010 min Scan# 393
 Delta R.T. -0.013 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

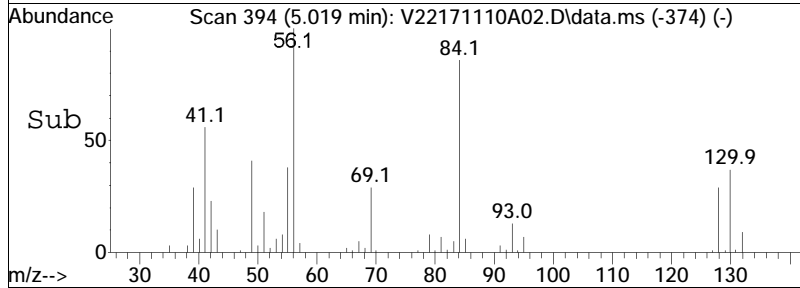
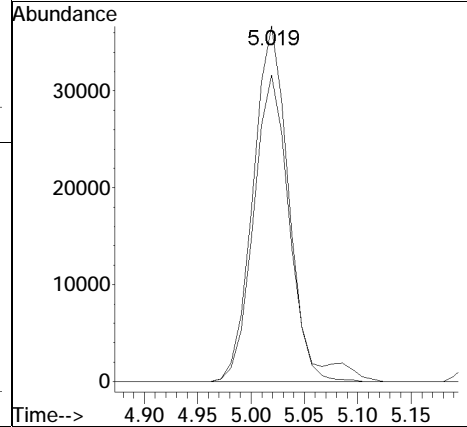
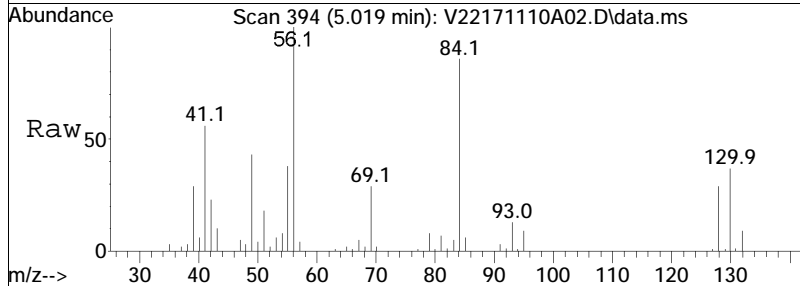
Tgt Ion	Resp	Lower	Upper
128	100		
49	164.4	104.4	156.6#
130	130.5	103.9	155.9

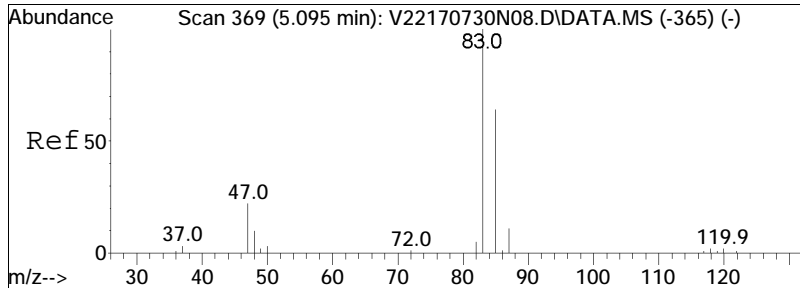




#33
 Cyclohexane
 Concen: 10.74 ug/L
 RT: 5.019 min Scan# 394
 Delta R.T. -0.014 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

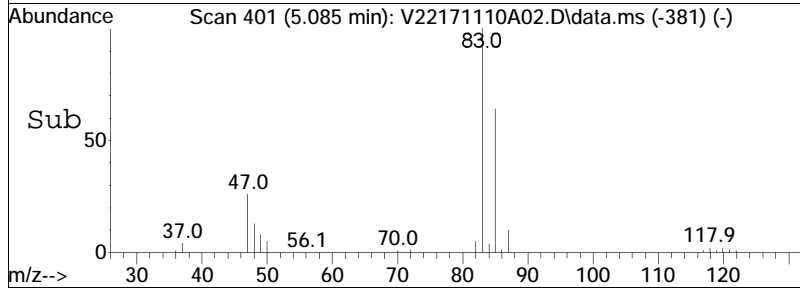
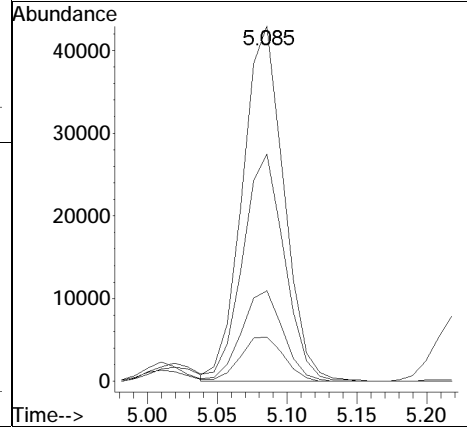
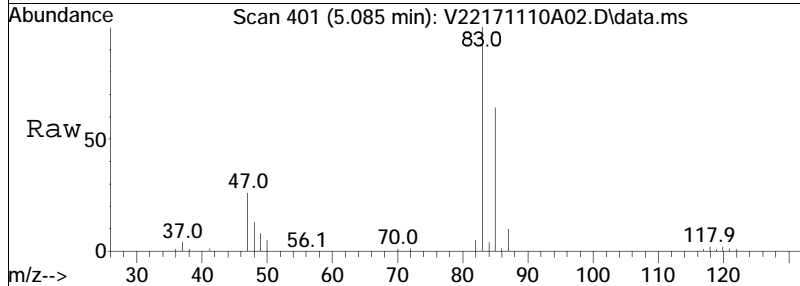
Tgt Ion:	Resp:	Lower	Upper
56	100		
84	87.1	66.0	137.2

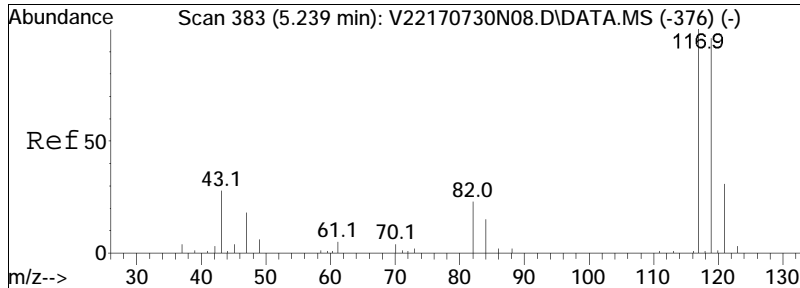




#34
 Chloroform
 Concen: 9.22 ug/L
 RT: 5.085 min Scan# 401
 Delta R.T. -0.010 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

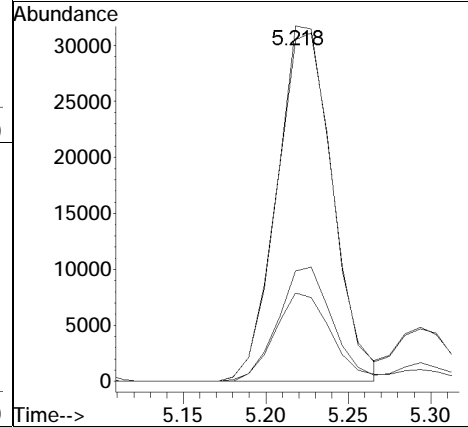
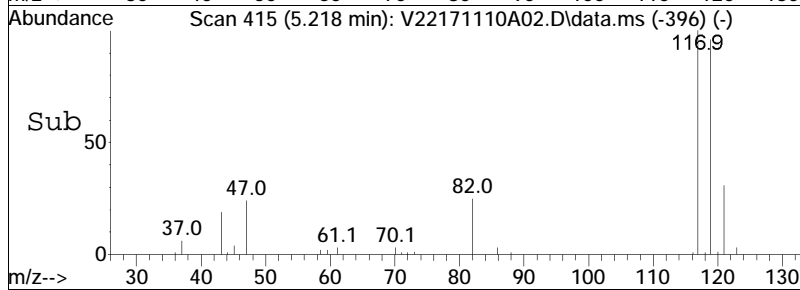
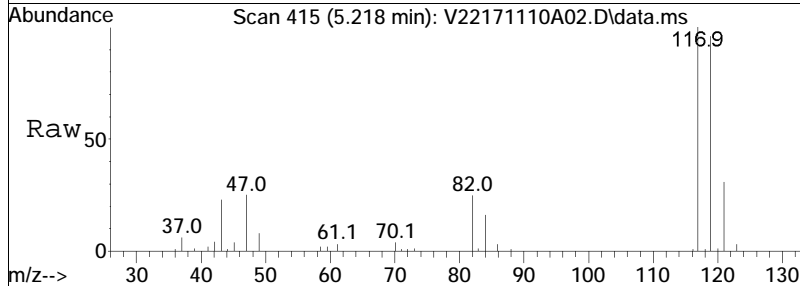
Tgt Ion	Resp	Lower	Upper
83	100		
85	64.7	42.4	88.2
47	25.7	14.0	29.0
48	13.2	6.9	14.3

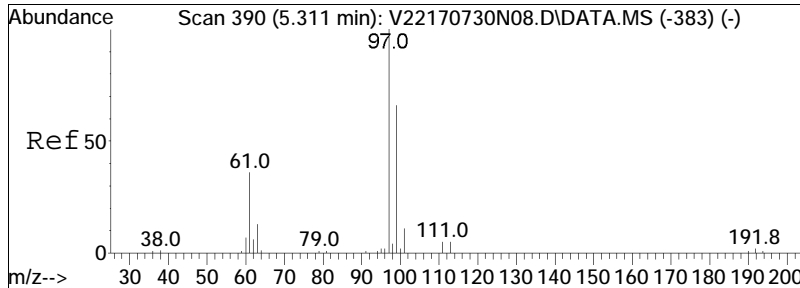




#36
 Carbon tetrachloride
 Concen: 9.79 ug/L
 RT: 5.218 min Scan# 415
 Delta R.T. -0.021 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

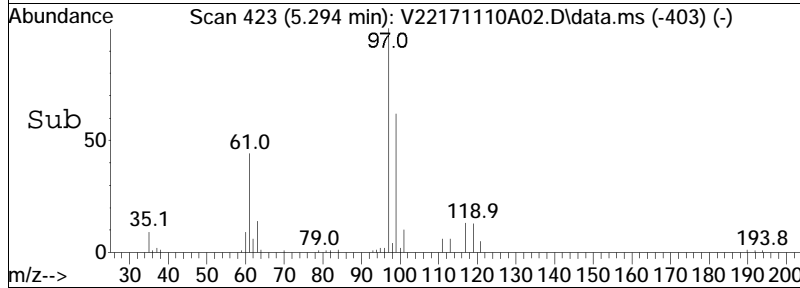
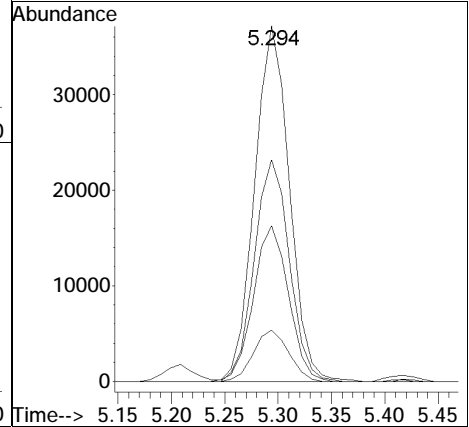
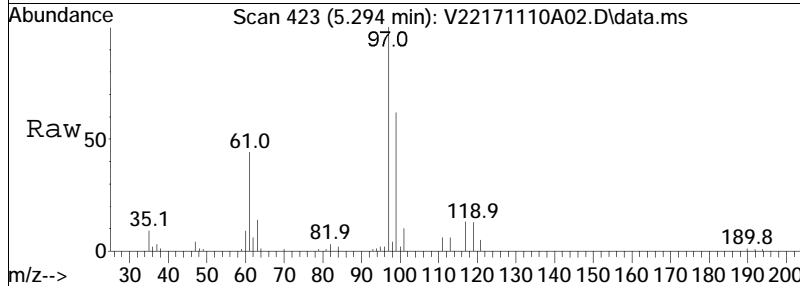
Tgt Ion	Resp	Lower	Upper
117	100		
119	98.5	62.1	129.1
121	31.3	20.3	42.3
82	25.8	15.4	32.0

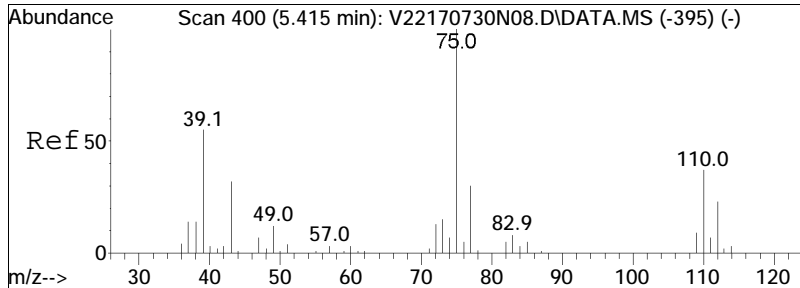




#39
 1,1,1-Trichloroethane
 Concen: 9.20 ug/L
 RT: 5.294 min Scan# 423
 Delta R.T. -0.007 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

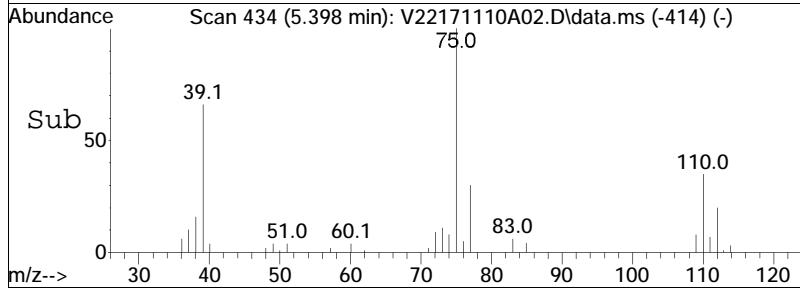
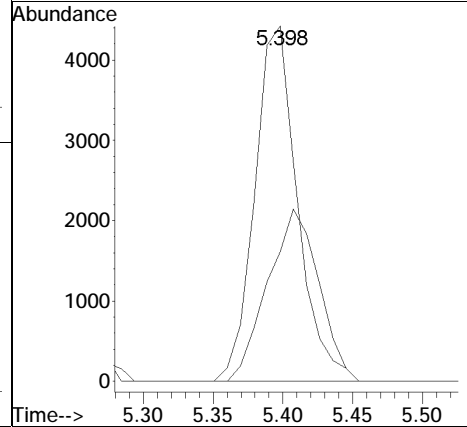
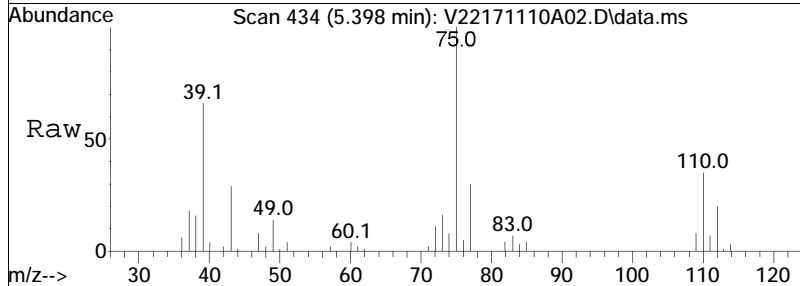
Tgt Ion	Resp	Lower	Upper
97	100		
99	62.7	42.4	88.0
61	44.1	26.0	54.0
63	14.6	8.3	17.3

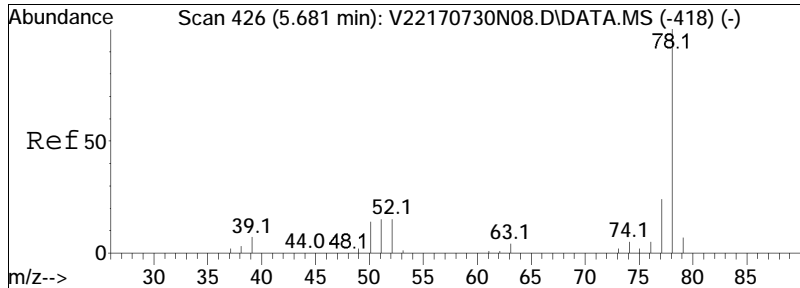




#41
 2-Butanone
 Concen: 9.84 ug/L
 RT: 5.398 min Scan# 434
 Delta R.T. -0.006 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

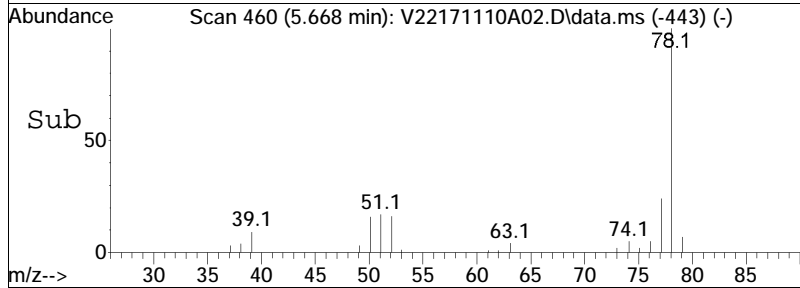
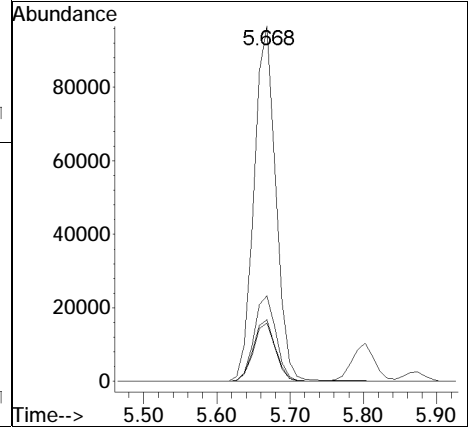
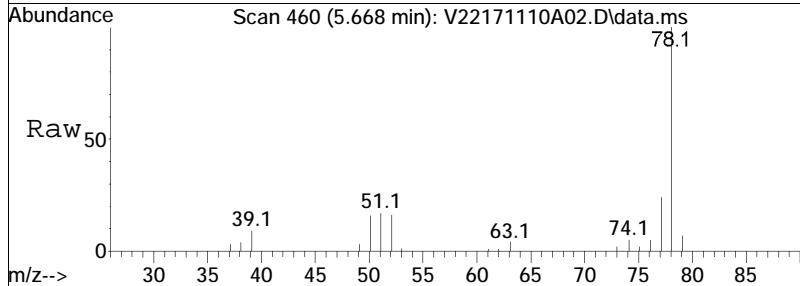
Tgt Ion: 43 Resp: 9401
 Ion Ratio Lower Upper
 43 100
 72 57.9 45.8 68.8

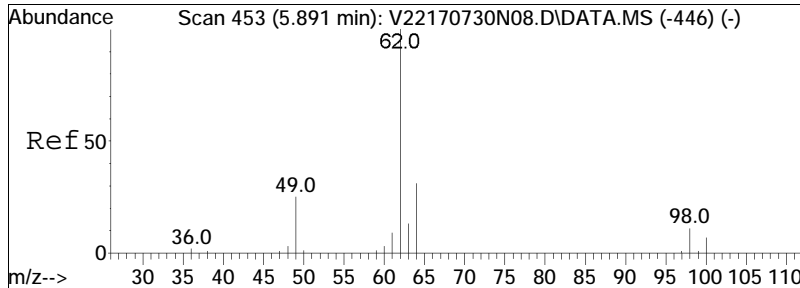




#44
 Benzene
 Concen: 9.58 ug/L
 RT: 5.668 min Scan# 460
 Delta R.T. -0.013 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

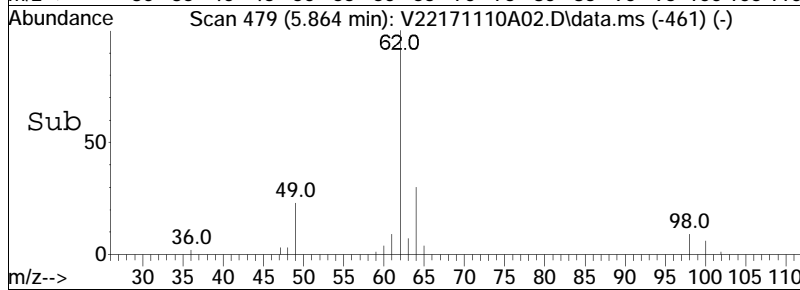
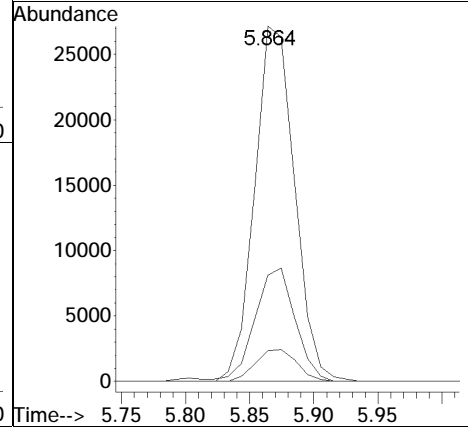
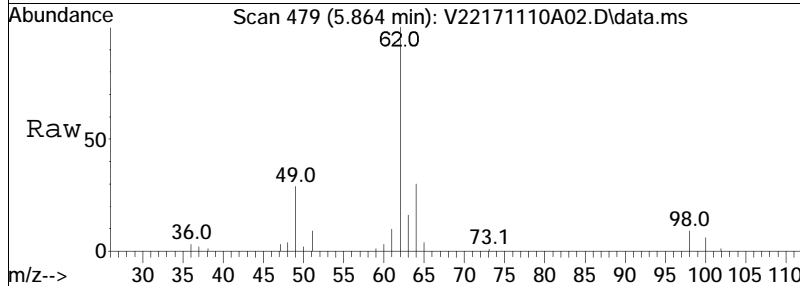
Tgt Ion	Resp	Lower	Upper
78	216614		
77	25.5	15.4	32.0
51	18.7	9.8	20.4
52	17.6	9.2	19.2

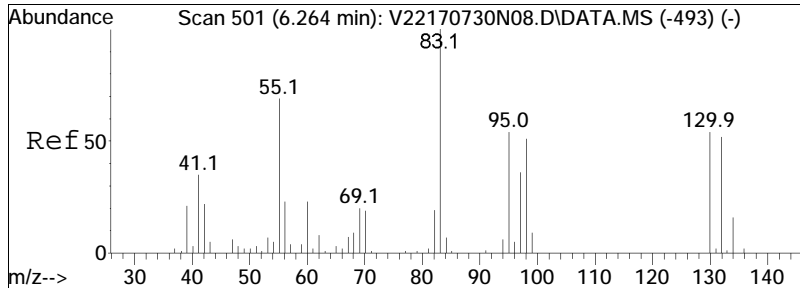




#47
 1,2-Dichloroethane
 Concen: 10.01 ug/L
 RT: 5.864 min Scan# 479
 Delta R.T. -0.019 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

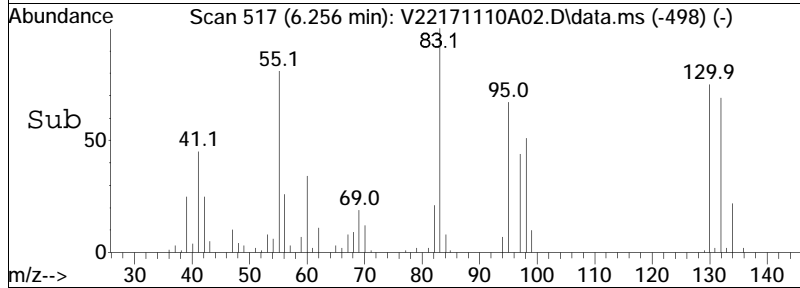
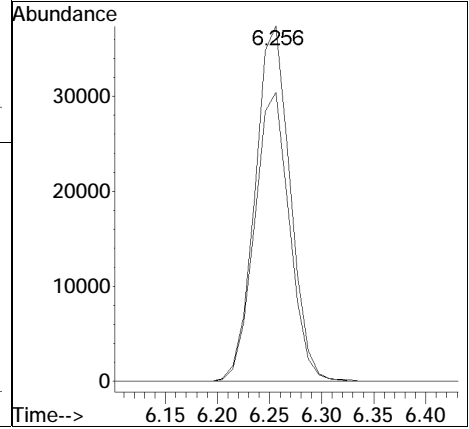
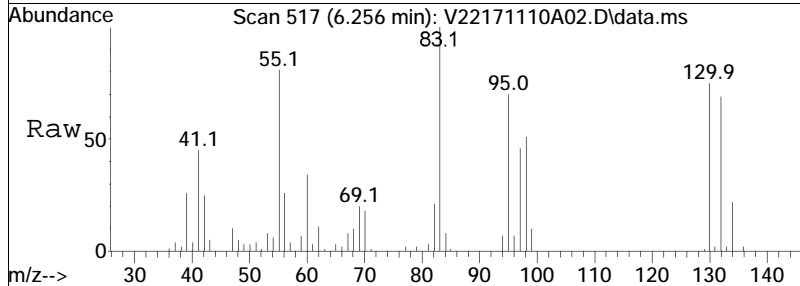
Tgt Ion:	Resp:	Lower	Upper
62	100		
64	32.8	12.3	52.3
98	9.3	0.0	30.3

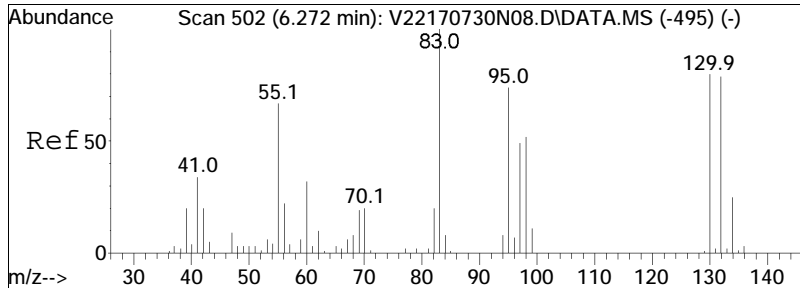




#50
 Methyl cyclohexane
 Concen: 9.90 ug/L
 RT: 6.256 min Scan# 517
 Delta R.T. -0.008 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

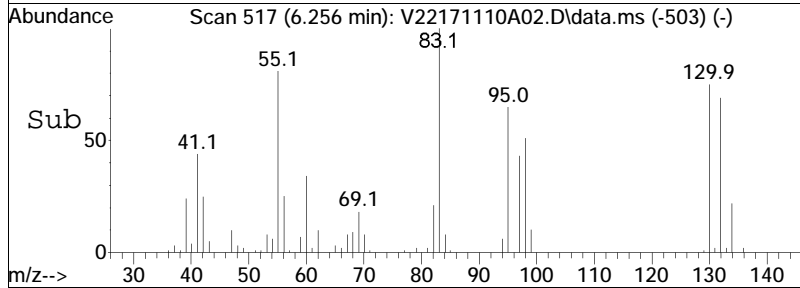
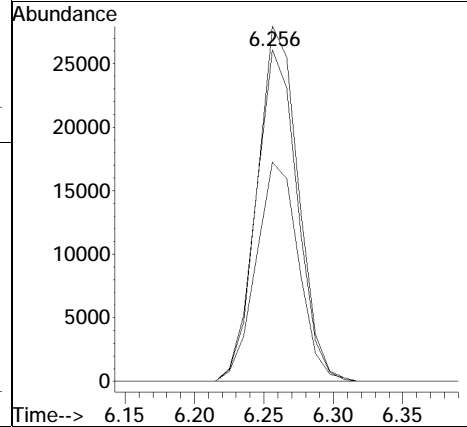
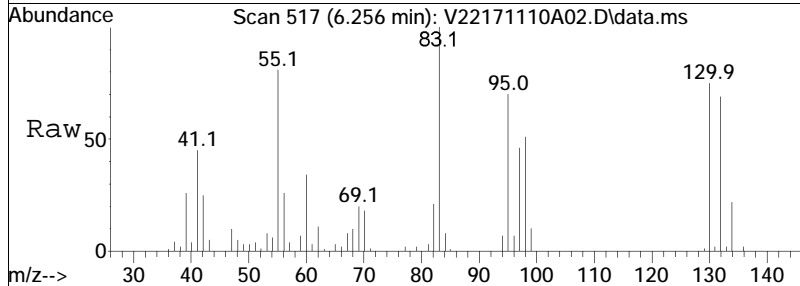
Tgt Ion	Resp	Lower	Upper
83	100		
55	81.0	55.4	83.2

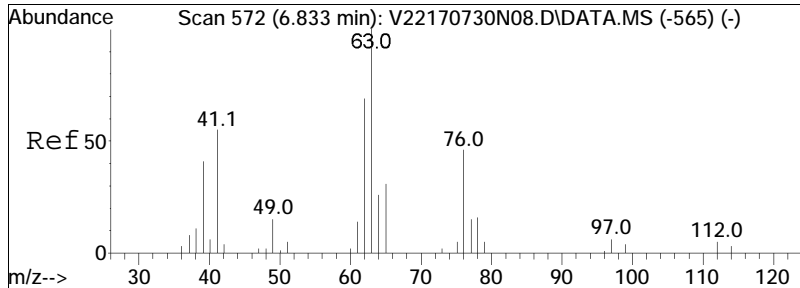




#51
 Trichloroethene
 Concen: 9.22 ug/L
 RT: 6.256 min Scan# 517
 Delta R.T. -0.016 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

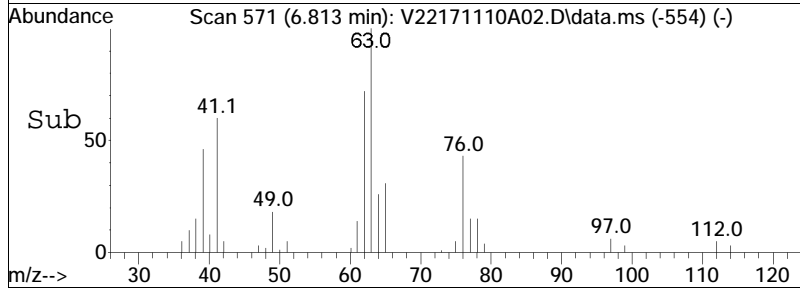
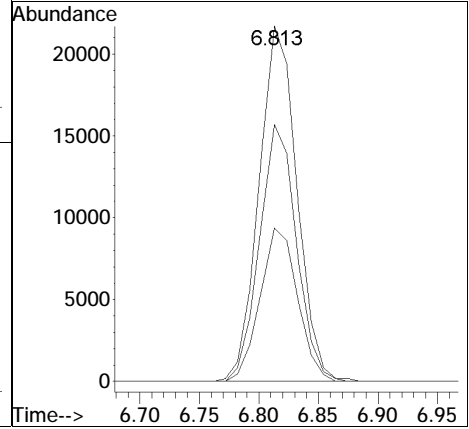
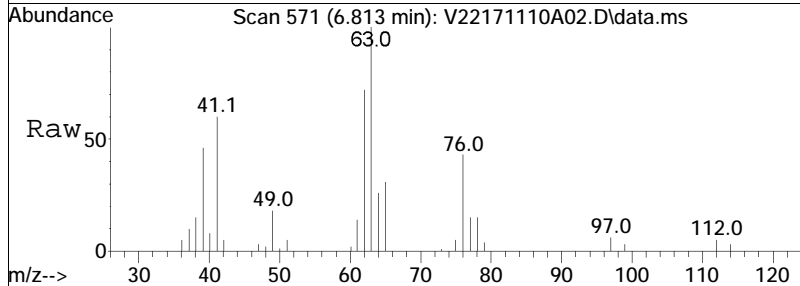
Tgt Ion	Resp	Lower	Upper
95	100		
97	68.3	55.0	82.4
130	107.1	89.2	133.8

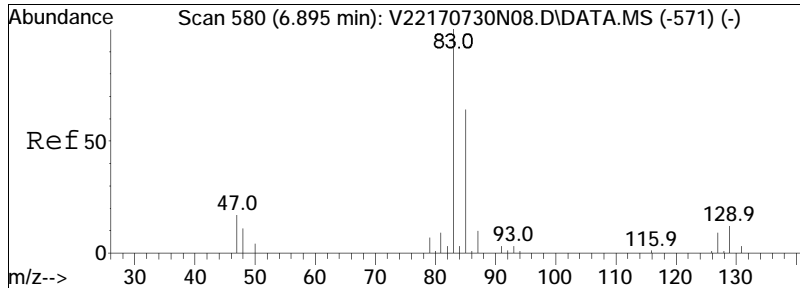




#54
 1,2-Dichloropropane
 Concen: 9.78 ug/L
 RT: 6.813 min Scan# 571
 Delta R.T. -0.020 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

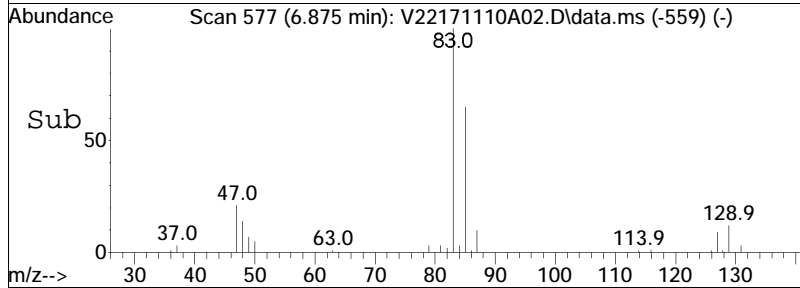
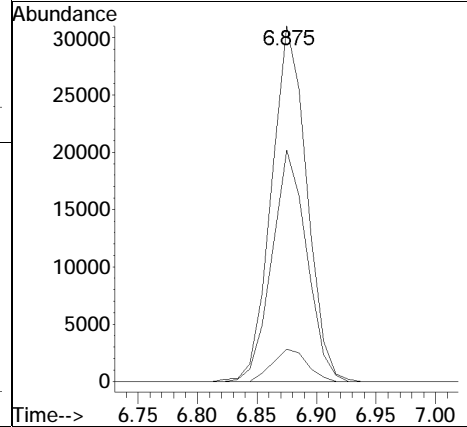
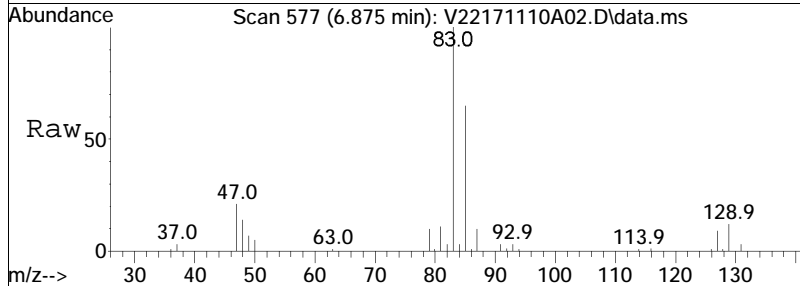
Tgt Ion:	Resp:	Lower	Upper
63	47997		
62	70.5	56.9	85.3
76	42.8	35.8	53.8

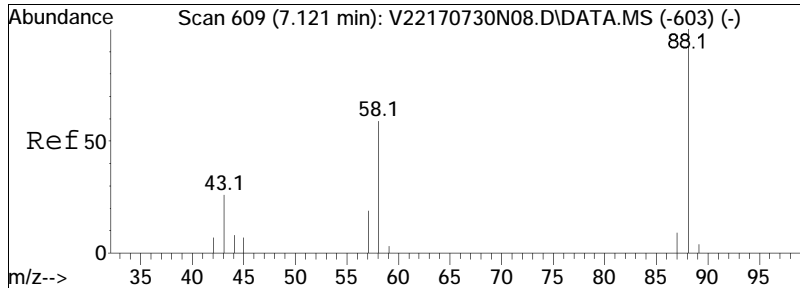




#57
 Bromodichloromethane
 Concen: 8.70 ug/L
 RT: 6.875 min Scan# 577
 Delta R.T. -0.012 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

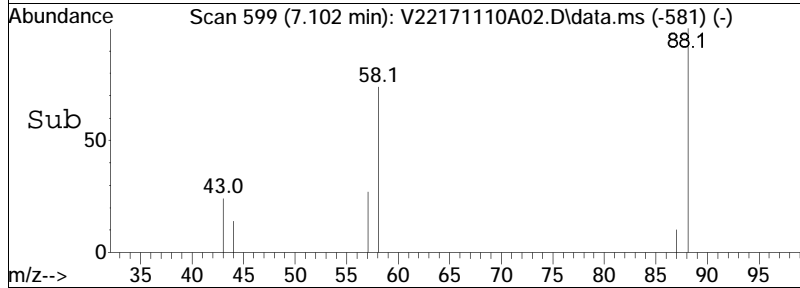
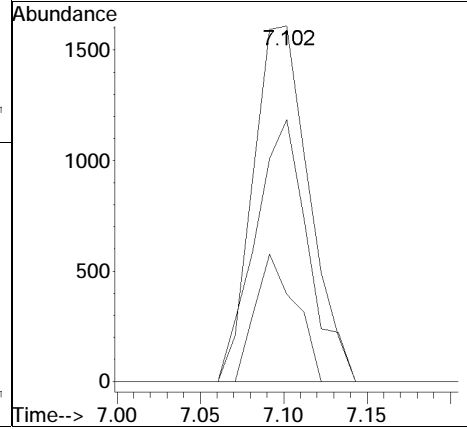
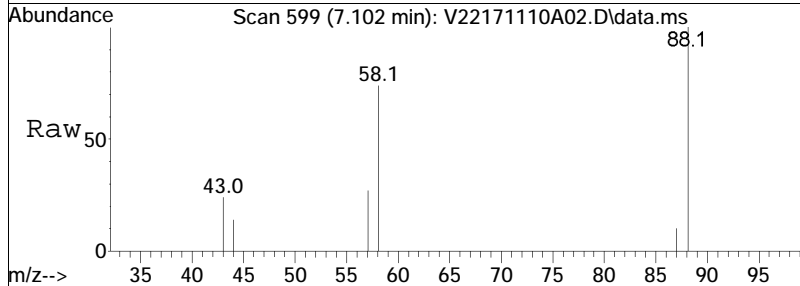
Tgt Ion	Resp	Lower	Upper
83	100		
85	64.5	51.6	77.4
127	9.0	7.4	11.0

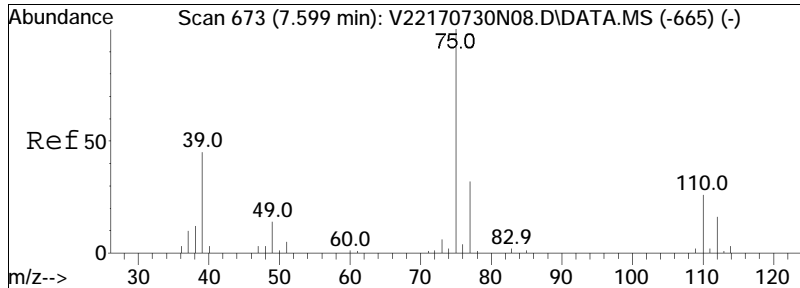




#60
 1,4-Dioxane
 Concen: 424.72 ug/L
 RT: 7.102 min Scan# 599
 Delta R.T. -0.011 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

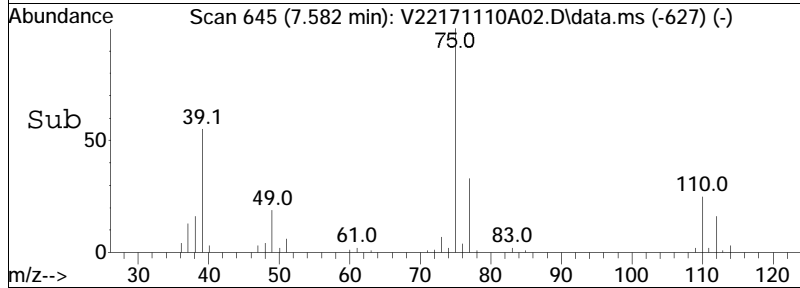
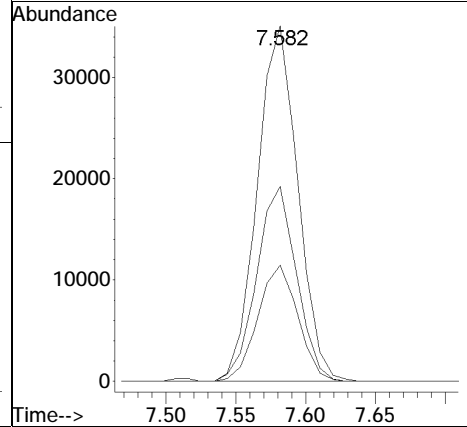
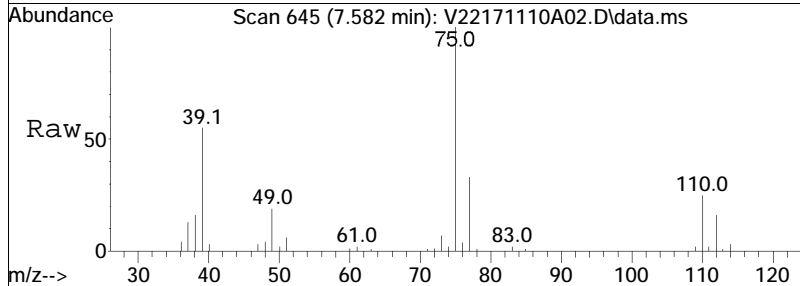
Tgt Ion:	88	Resp:	3745
Ion Ratio	Lower	Upper	
88	100		
58	70.3	43.3	64.9#
43	26.1	15.1	22.7#

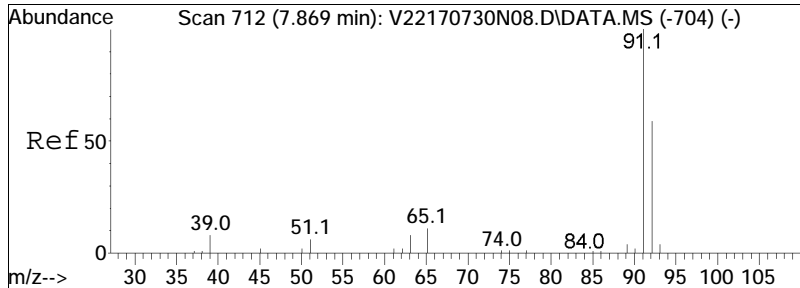




#61
 cis-1,3-Dichloropropene
 Concen: 8.41 ug/L
 RT: 7.582 min Scan# 645
 Delta R.T. -0.010 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

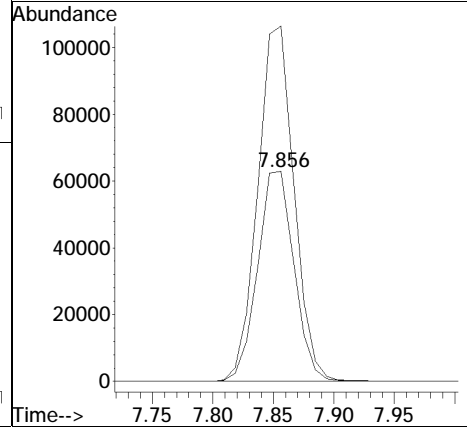
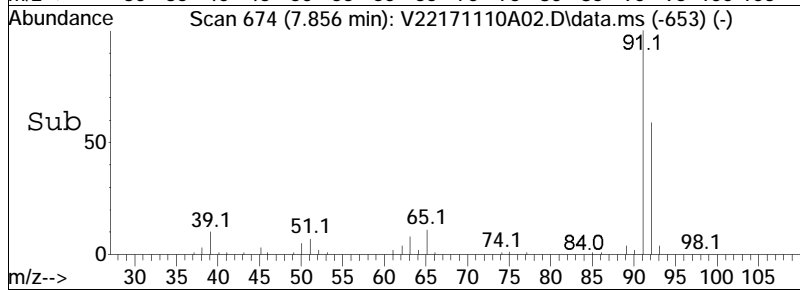
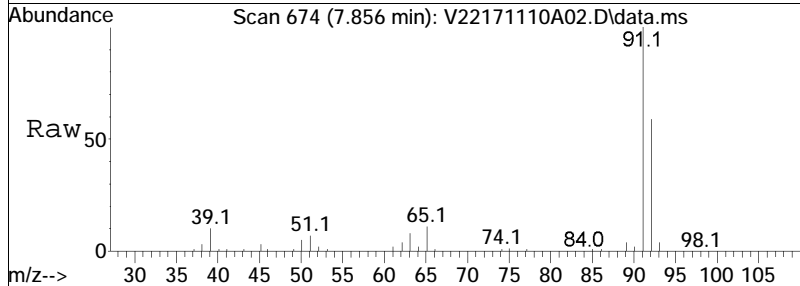
Tgt Ion	Resp	Lower	Upper
75	100		
77	32.3	25.6	38.4
39	54.0	35.4	53.0#

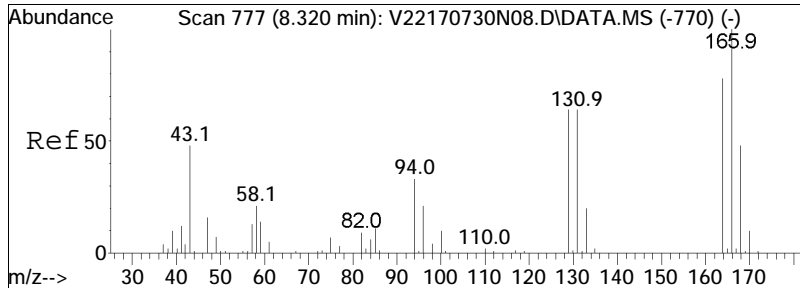




#64
 Toluene
 Concen: 9.83 ug/L
 RT: 7.856 min Scan# 674
 Delta R.T. -0.006 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

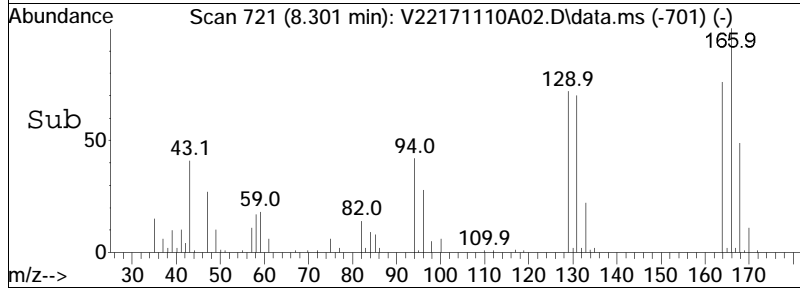
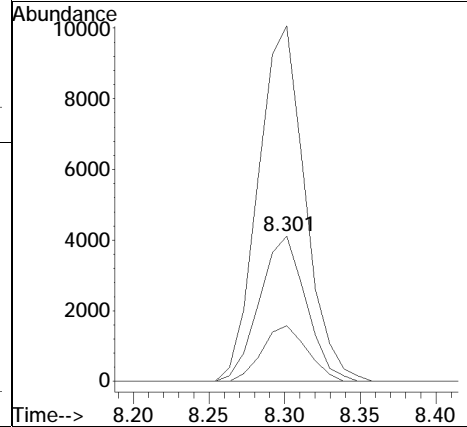
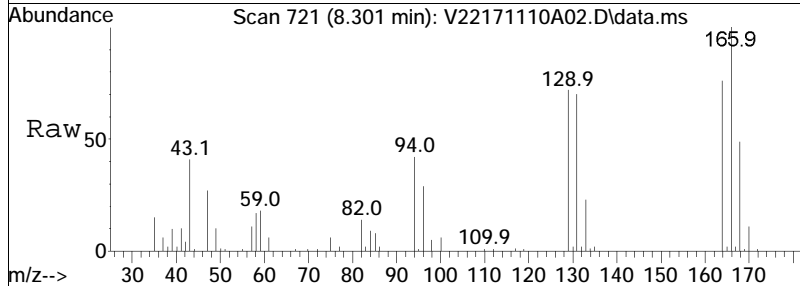
Tgt Ion	Resp	Lower	Upper
92	131828		
91	168.2	137.0	205.6

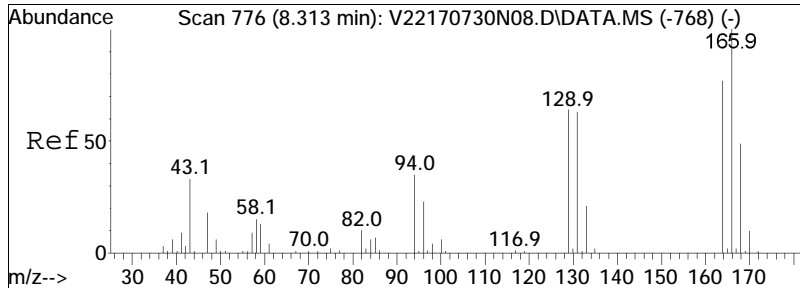




#65
 4-Methyl-2-pentanone
 Concen: 8.99 ug/L
 RT: 8.301 min Scan# 721
 Delta R.T. -0.012 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

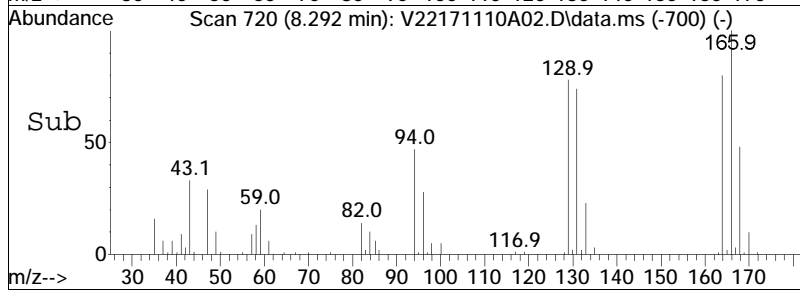
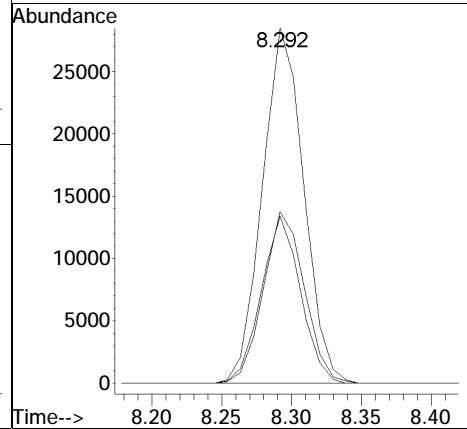
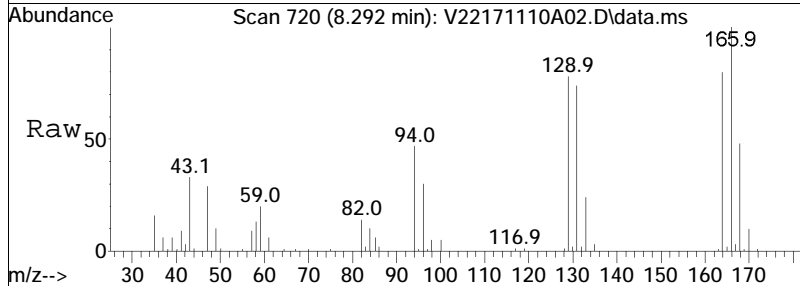
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
58	100		
100	37.2	36.2	54.4
43	245.7	181.8	272.8

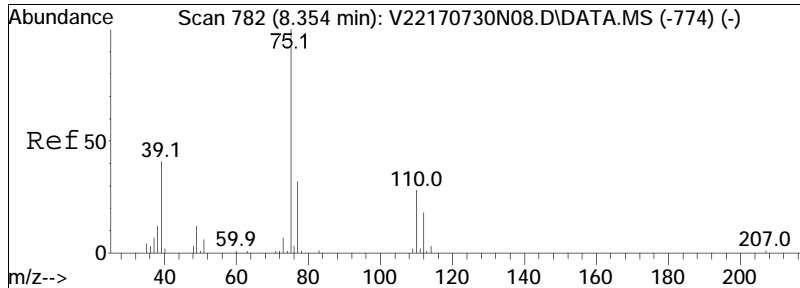




#66
 Tetrachloroethene
 Concen: 8.46 ug/L
 RT: 8.292 min Scan# 720
 Delta R.T. -0.014 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

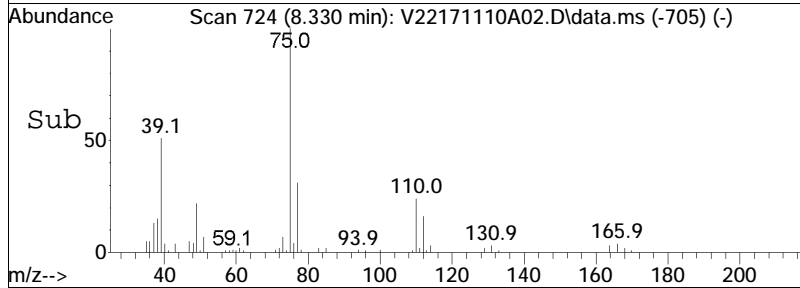
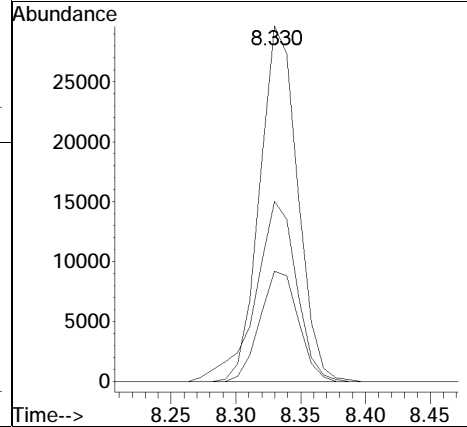
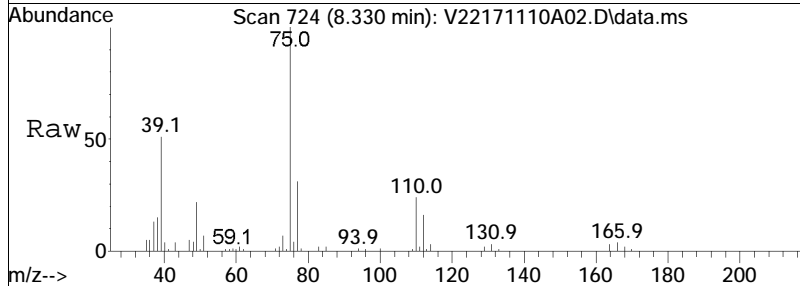
Tgt Ion	Resp	Lower	Upper
166	100		
168	47.8	27.8	67.8
94	44.6	16.7	56.7

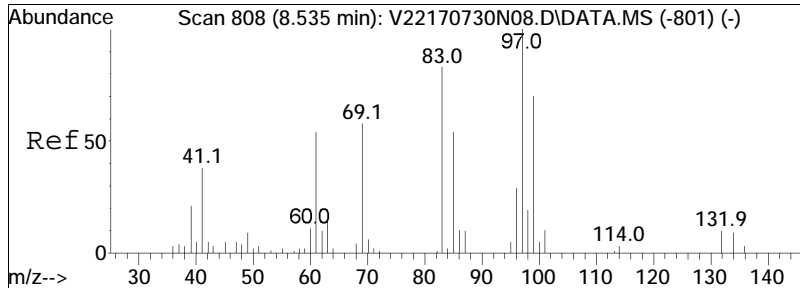




#68
 trans-1,3-Dichloropropene
 Concen: 9.05 ug/L
 RT: 8.330 min Scan# 724
 Delta R.T. -0.018 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

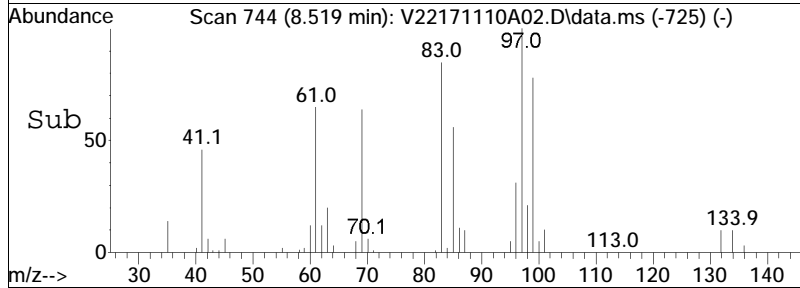
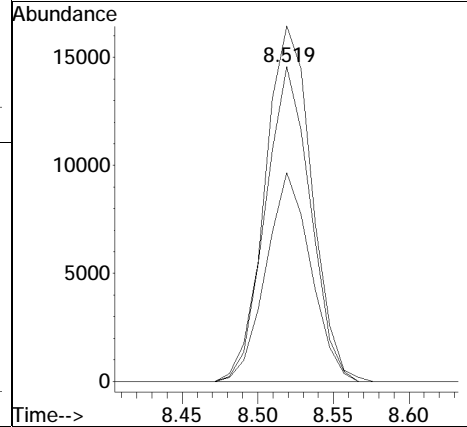
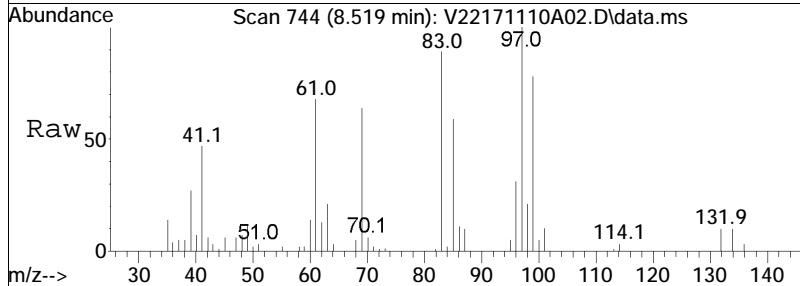
Tgt Ion:	75	Resp:	60017
Ion Ratio	Lower	Upper	
75	100		
77	31.5	11.9	51.9
39	55.2	27.4	67.4

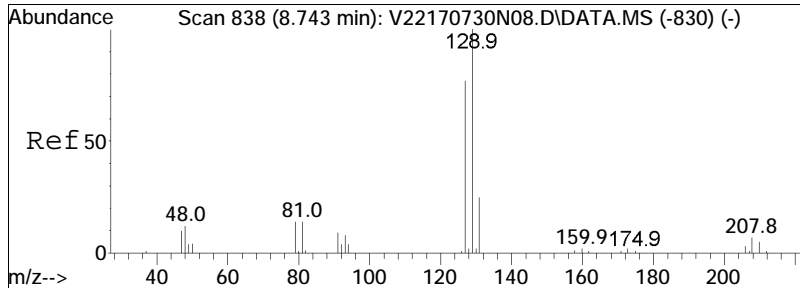




#71
 1,1,2-Trichloroethane
 Concen: 9.44 ug/L
 RT: 8.519 min Scan# 744
 Delta R.T. -0.016 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

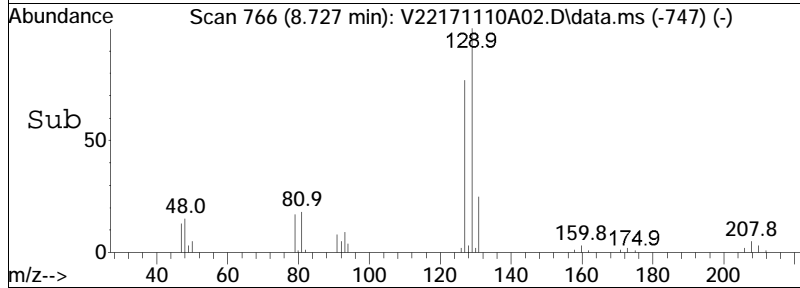
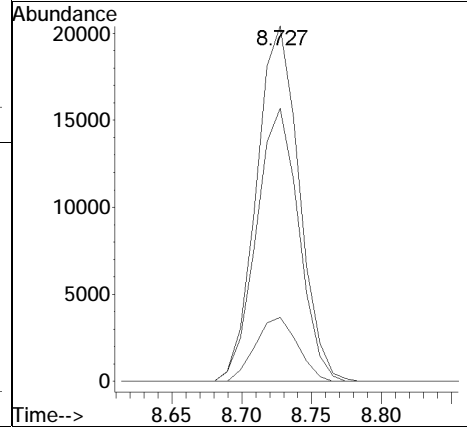
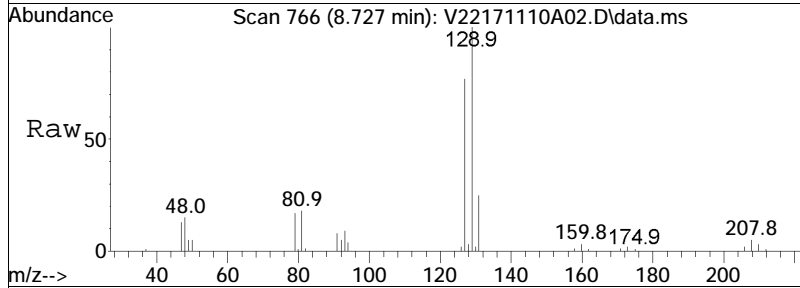
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
83	100		
97	117.9	103.4	143.4
85	66.3	47.9	87.9

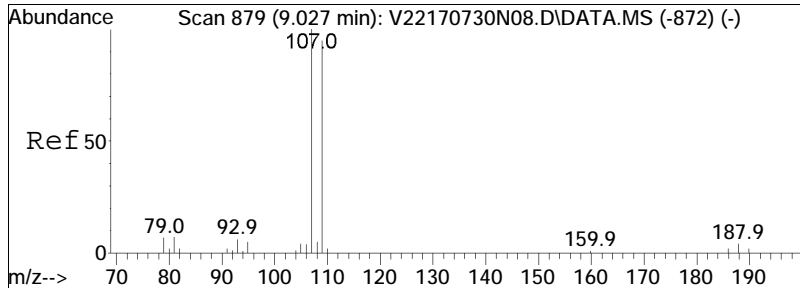




#72
 Chlorodibromomethane
 Concen: 8.65 ug/L
 RT: 8.727 min Scan# 766
 Delta R.T. -0.016 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

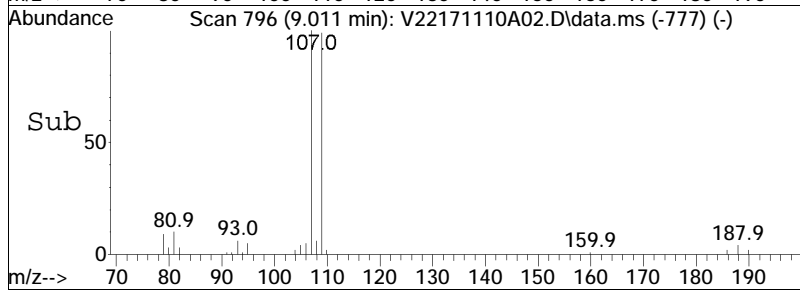
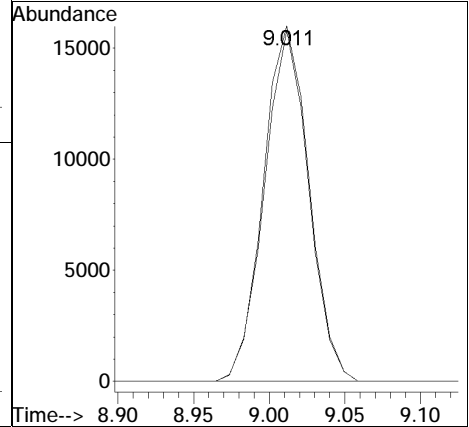
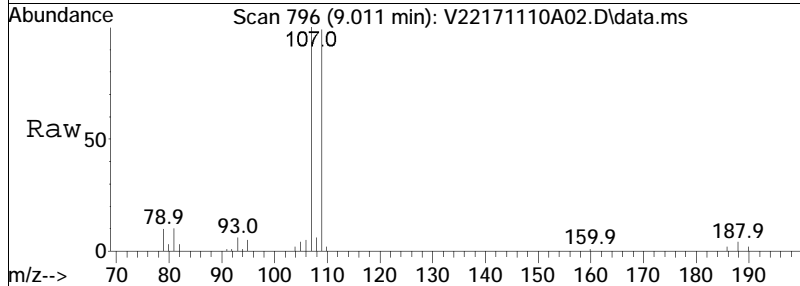
Tgt Ion	Resp	Lower	Upper
129	43326		
129	100		
81	17.9	0.0	33.8
127	76.6	57.1	97.1

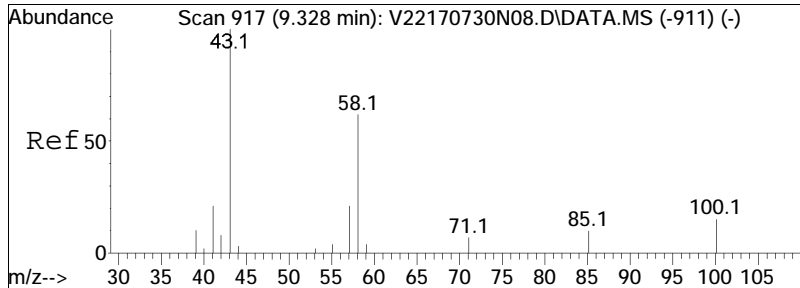




#74
 1,2-Dibromoethane
 Concen: 8.37 ug/L
 RT: 9.011 min Scan# 796
 Delta R.T. -0.015 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

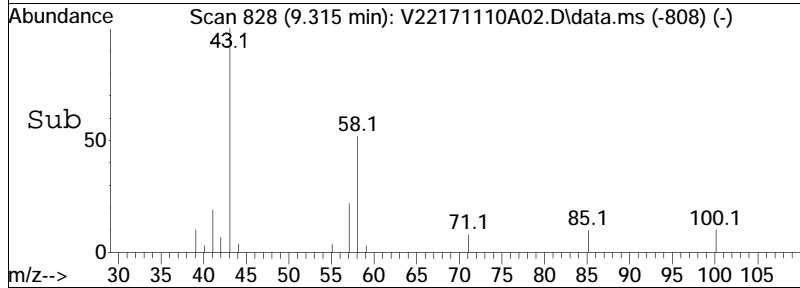
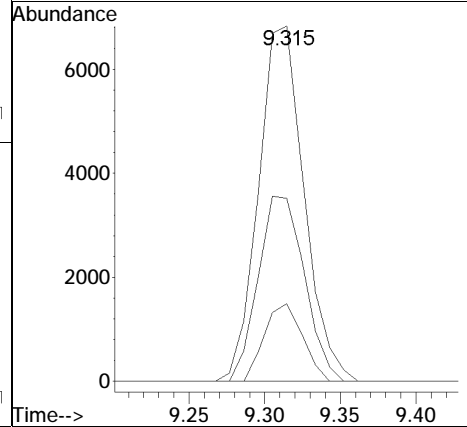
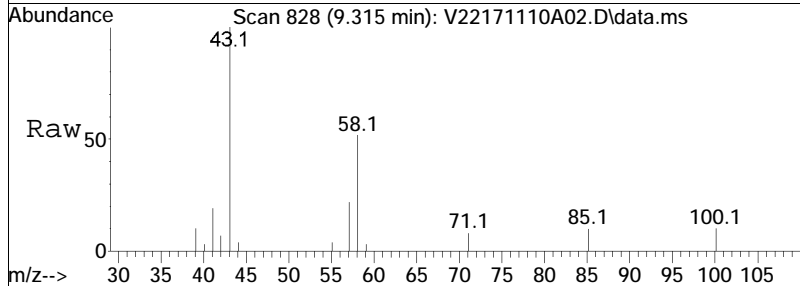
Tgt Ion	Resp	Lower	Upper
107	100		
109	95.7	75.1	112.7

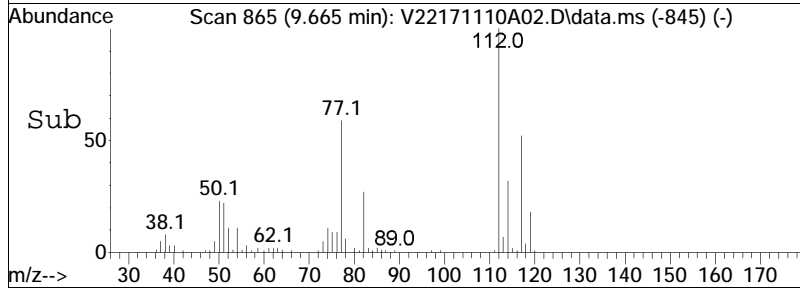
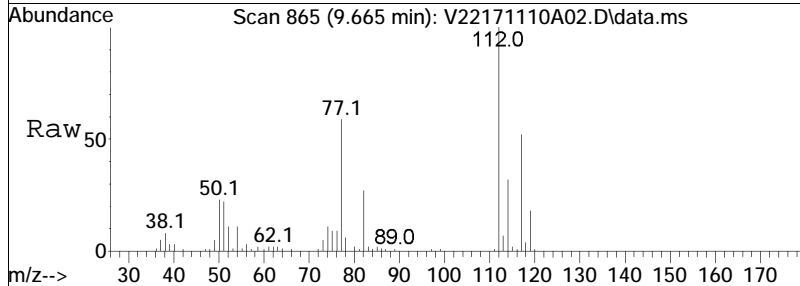
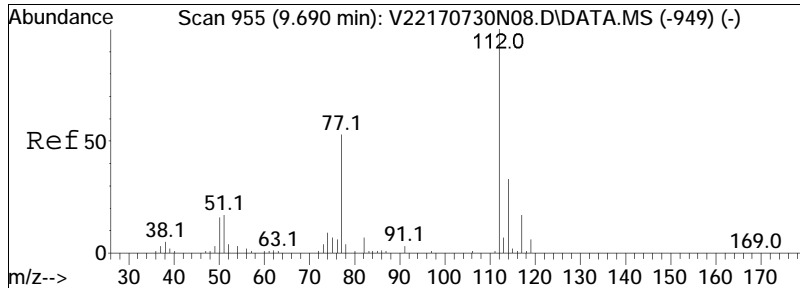




#76
 2-Hexanone
 Concen: 10.04 ug/L
 RT: 9.315 min Scan# 828
 Delta R.T. -0.013 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

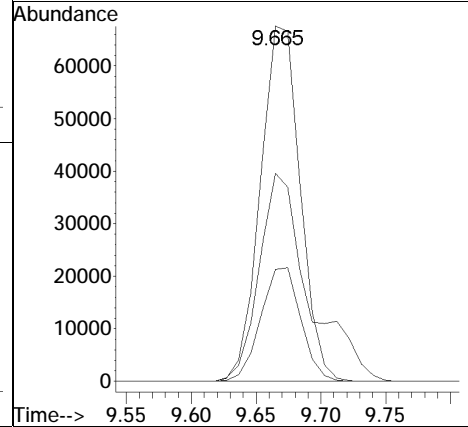
Tgt Ion:	43	58	57	Resp:	14312	Lower	Upper
Ion Ratio	100	52.8	18.4			47.6	71.4
						16.6	24.8

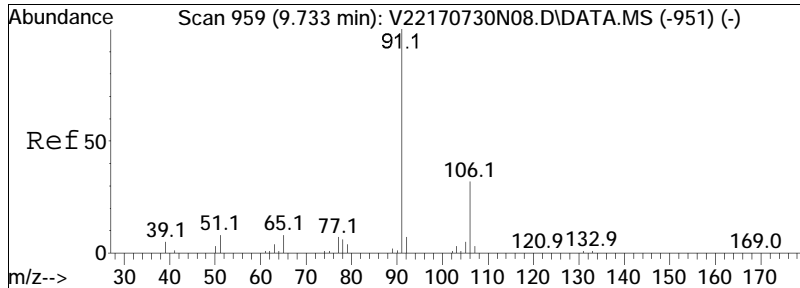




#77
 Chlorobenzene
 Concen: 9.26 ug/L
 RT: 9.665 min Scan# 865
 Delta R.T. -0.015 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

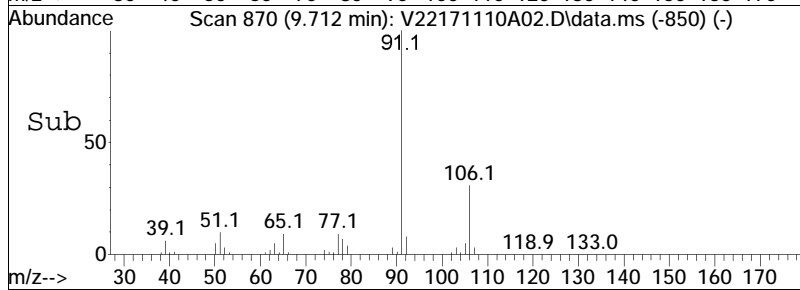
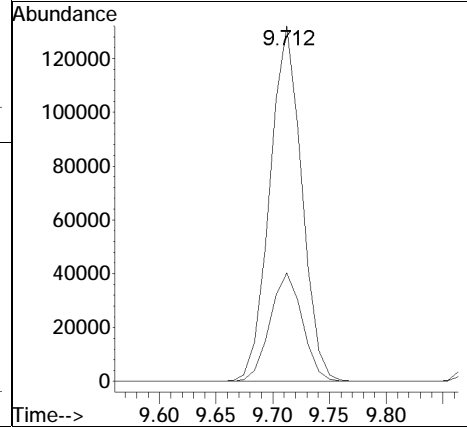
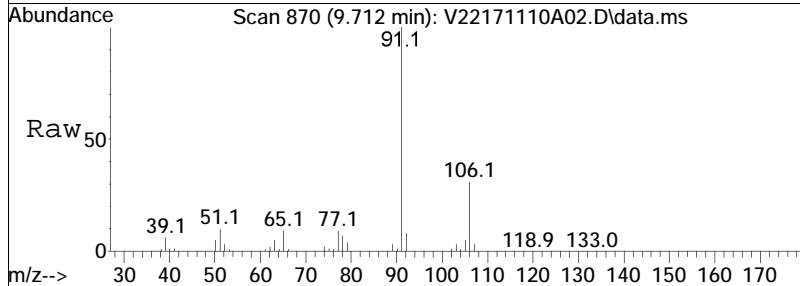
Tgt Ion	Resp	Lower	Upper
112	144444		
77	73.1	55.4	83.0
114	32.2	26.2	39.4

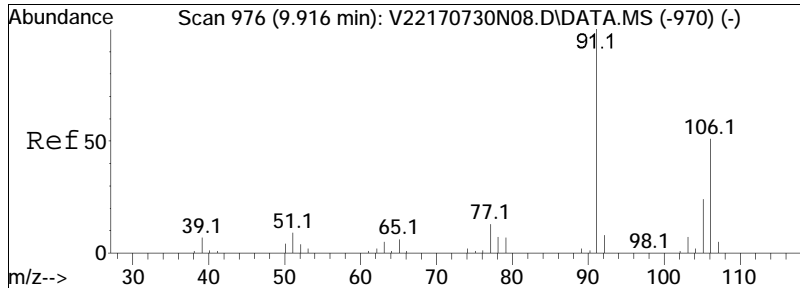




#78
 Ethylbenzene
 Concen: 9.80 ug/L
 RT: 9.712 min Scan# 870
 Delta R.T. -0.011 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

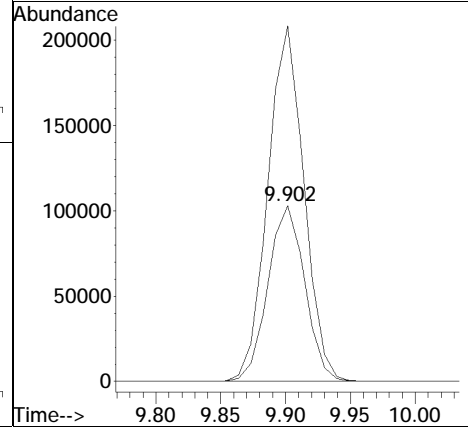
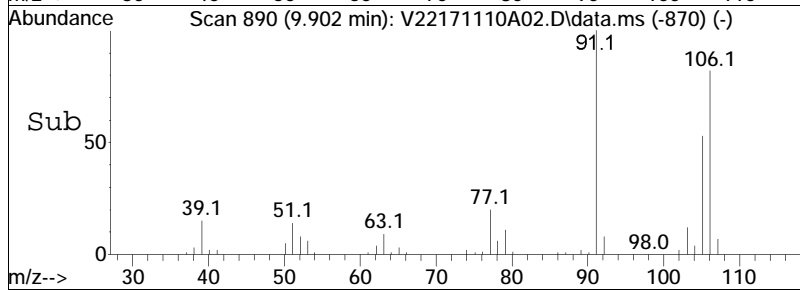
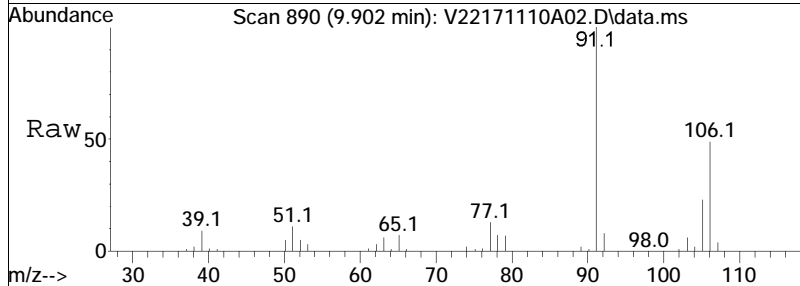
Tgt Ion:	91	Resp:	258388
Ion Ratio	Lower	Upper	
91	100		
106	30.9	25.8	38.6

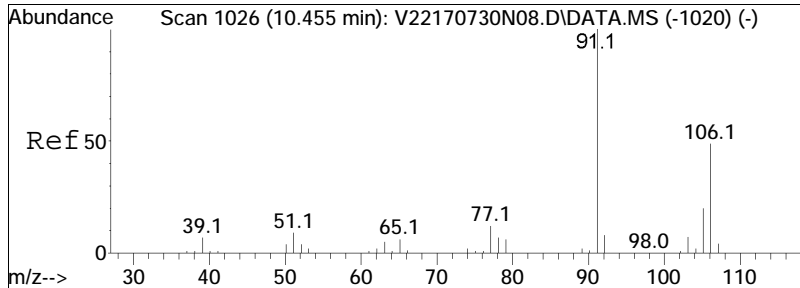




#80
 p/m Xylene
 Concen: 19.25 ug/L
 RT: 9.902 min Scan# 890
 Delta R.T. -0.014 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

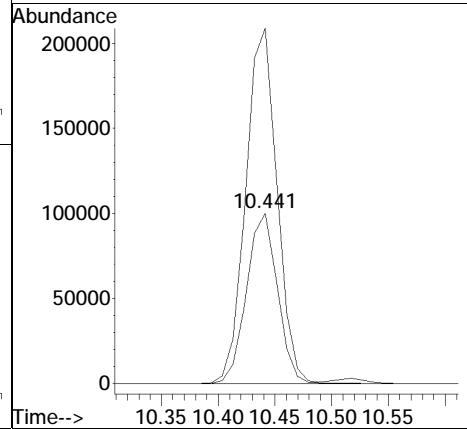
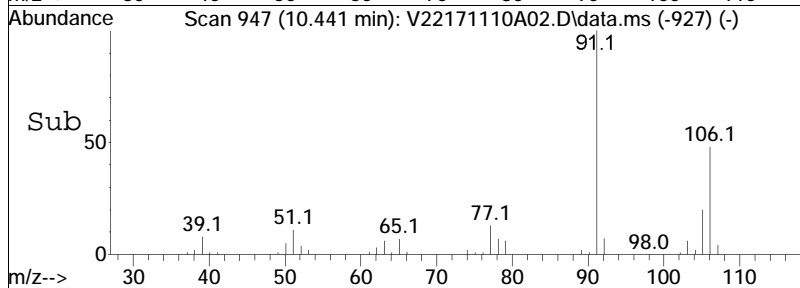
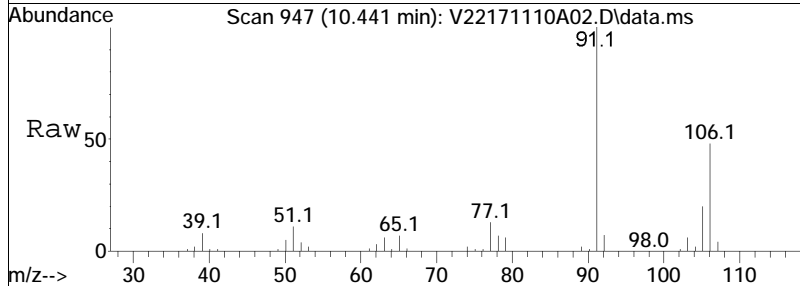
Tgt Ion	Resp	Lower	Upper
106	100		
91	198.4	156.0	234.0

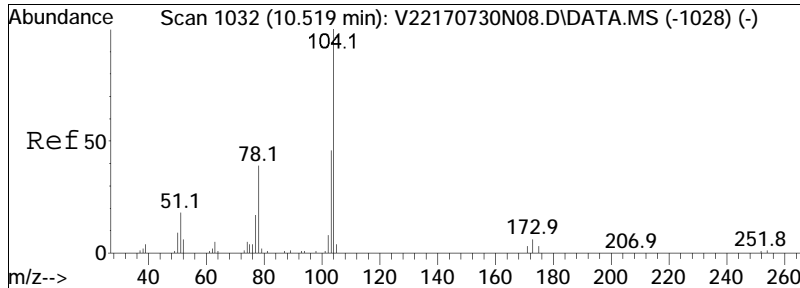




#81
 o Xylene
 Concen: 22.31 ug/L
 RT: 10.441 min Scan# 947
 Delta R.T. -0.014 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

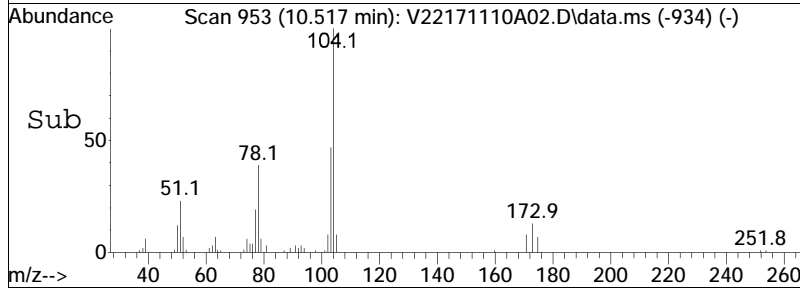
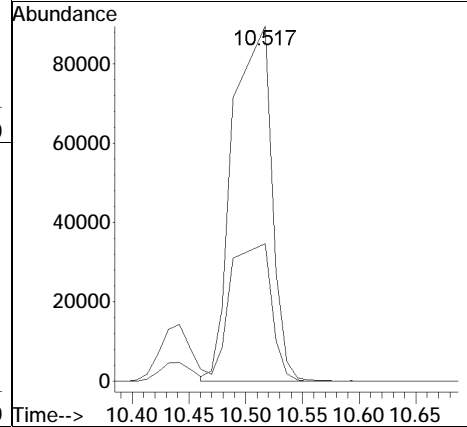
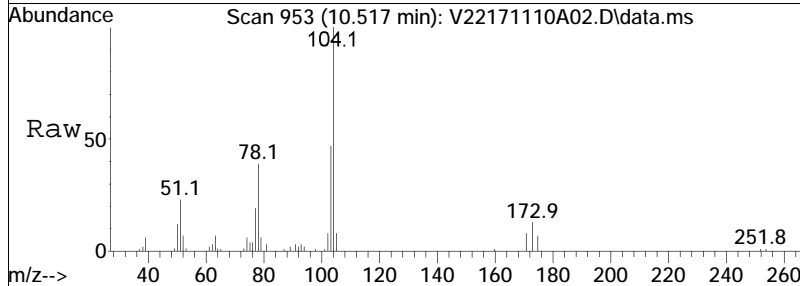
Tgt Ion	Resp	Lower	Upper
106	100		
91	184.9	164.0	246.0

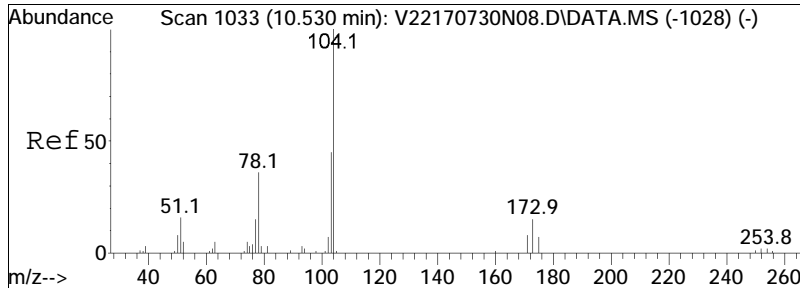




#82
 Styrene
 Concen: 9.02 ug/L
 RT: 10.517 min Scan# 953
 Delta R.T. -0.002 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

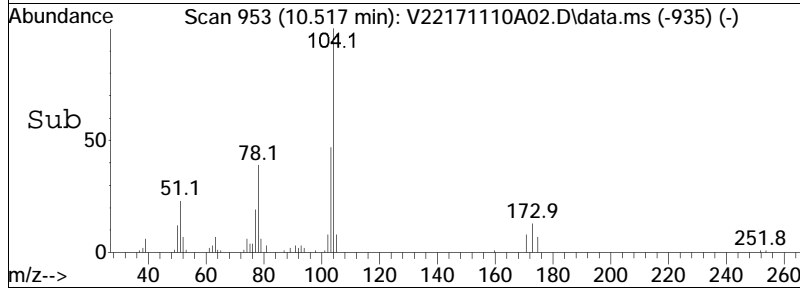
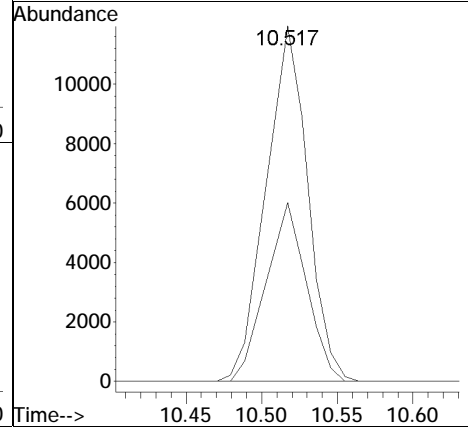
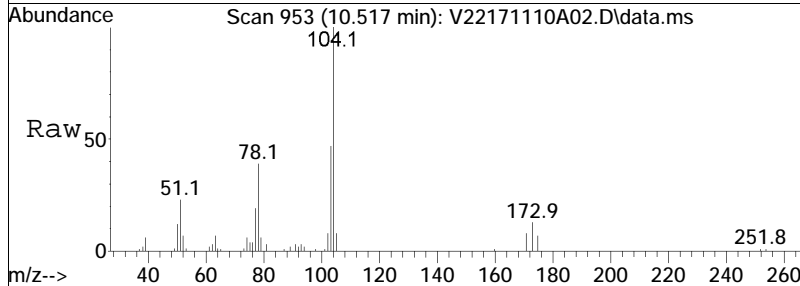
Tgt Ion	104	78	Ratio	100	Lower	Upper
Resp:	141023					
Ion Ratio		43.9			32.1	48.1

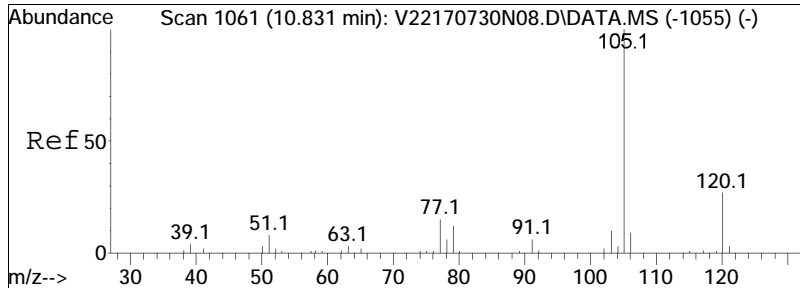




#84
 Bromoform
 Concen: 5.51 ug/L
 RT: 10.517 min Scan# 953
 Delta R.T. -0.013 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

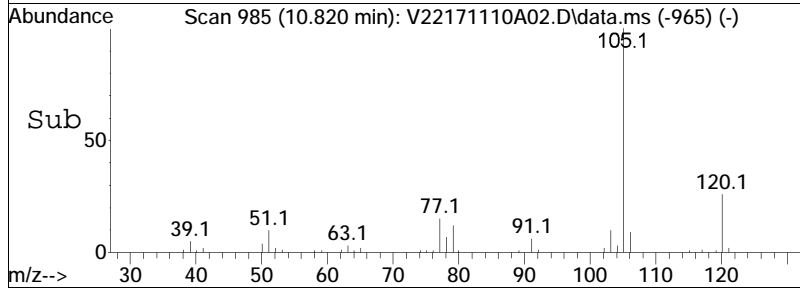
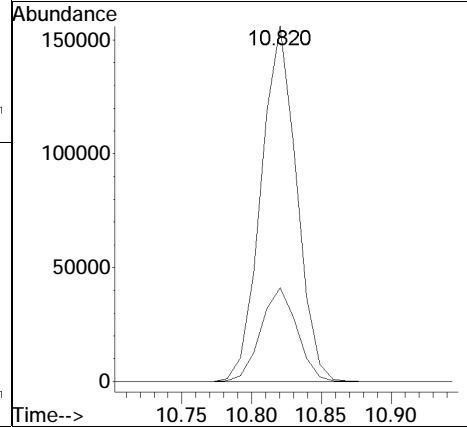
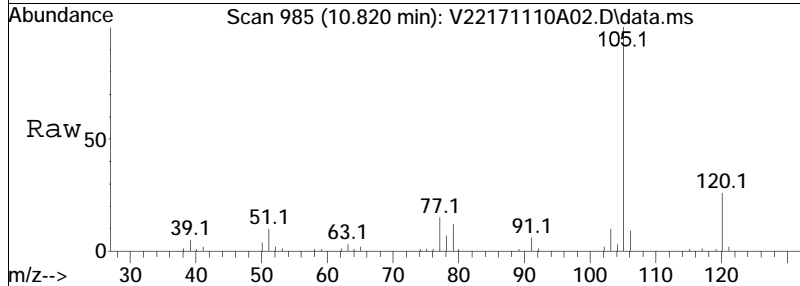
Tgt Ion:	173	Resp:	18362
Ion Ratio	Lower	Upper	
173	100		
175	50.2	29.3	69.3

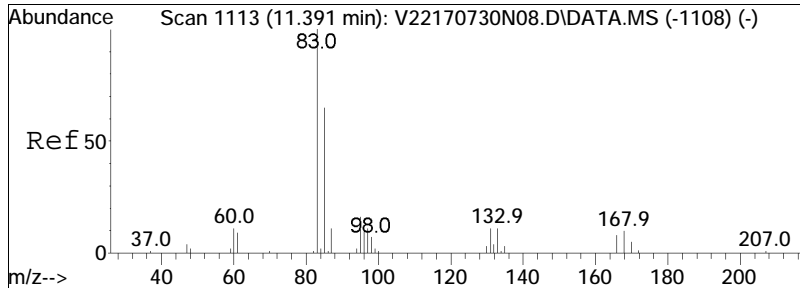




#86
 Isopropylbenzene
 Concen: 10.15 ug/L
 RT: 10.820 min Scan# 985
 Delta R.T. -0.011 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

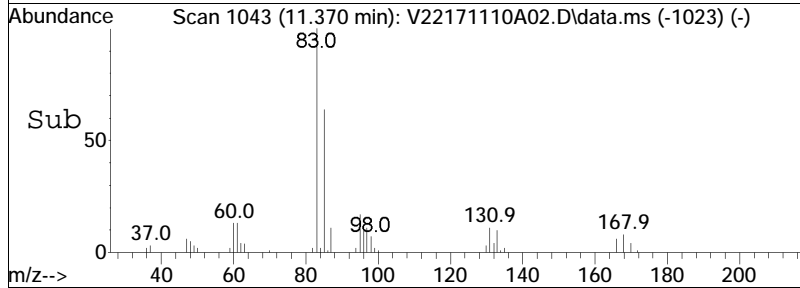
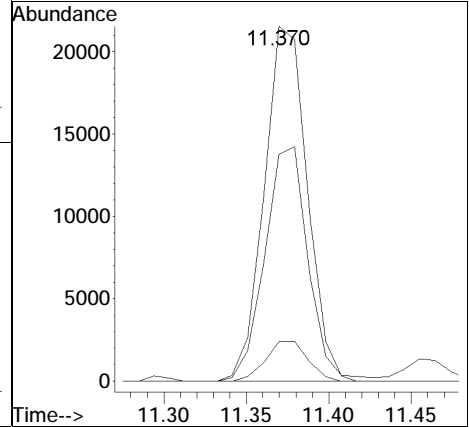
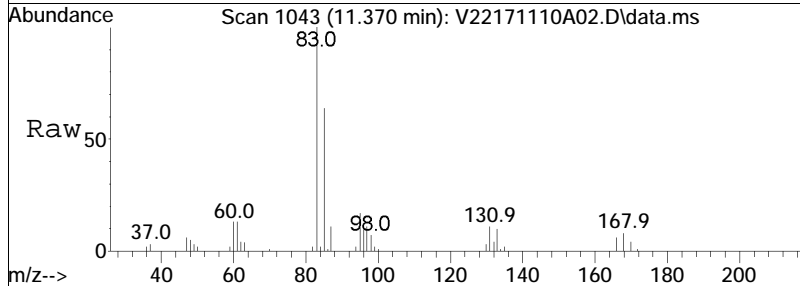
Tgt Ion	105	120	Resp	275304
Ion Ratio	100	26.7	Lower	Upper
			7.7	47.7

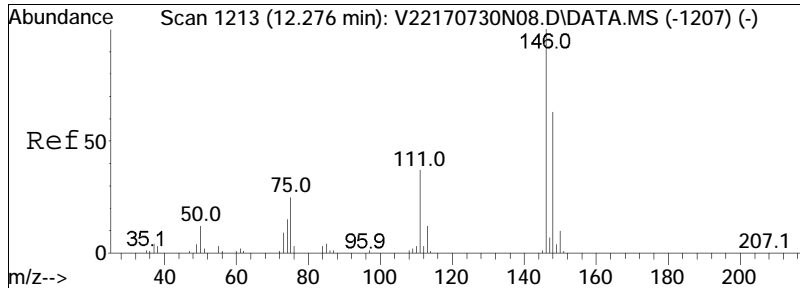




#91
 1,1,2,2-Tetrachloroethane
 Concen: 9.71 ug/L
 RT: 11.370 min Scan# 1043
 Delta R.T. -0.010 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

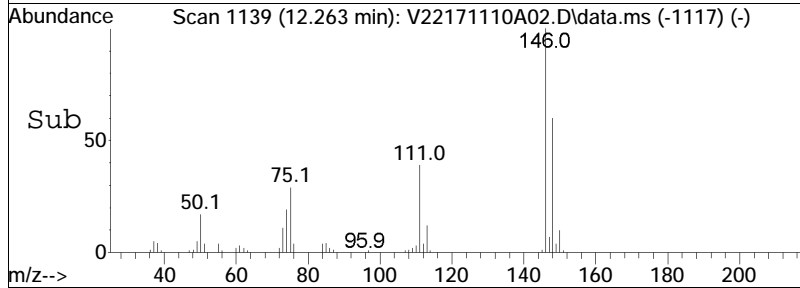
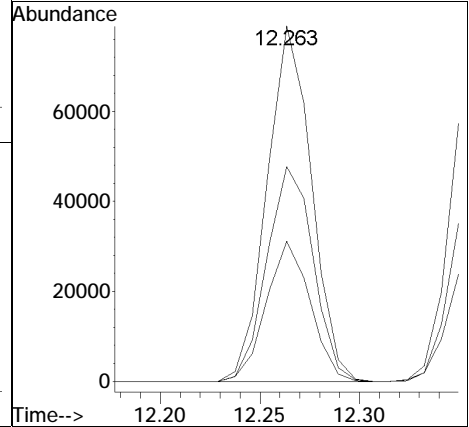
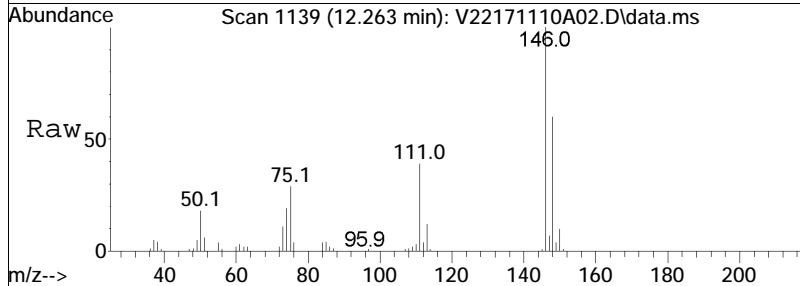
Tgt Ion	Resp	Lower	Upper
83	39131		
131	11.2	0.0	30.8
85	66.5	45.4	85.4

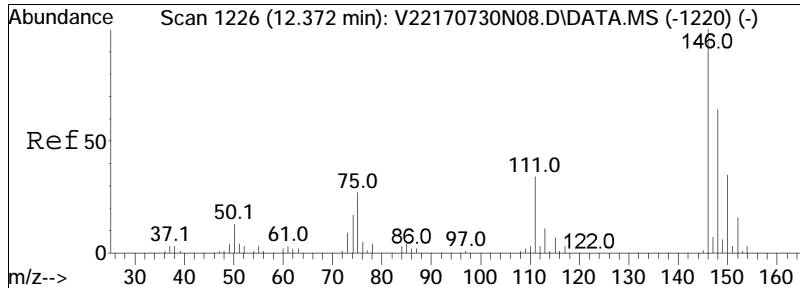




#104
 1,3-Dichlorobenzene
 Concen: 9.63 ug/L
 RT: 12.263 min Scan# 1139
 Delta R.T. -0.013 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

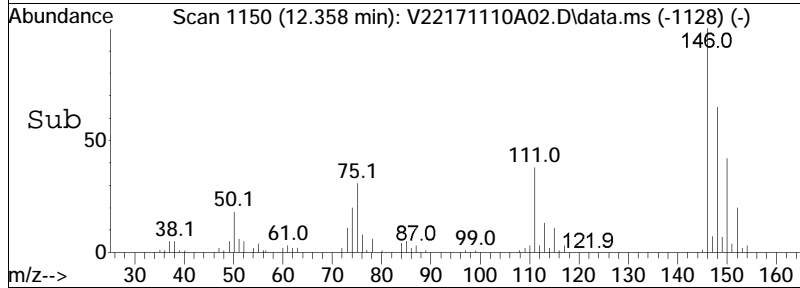
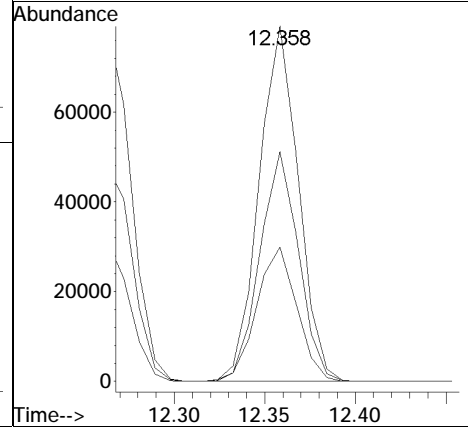
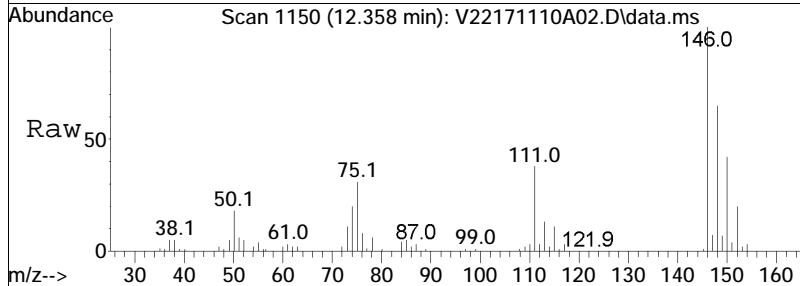
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.1	24.0	49.8
148	63.0	41.8	86.8

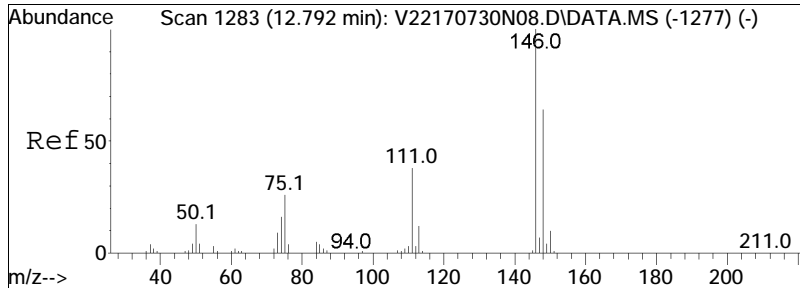




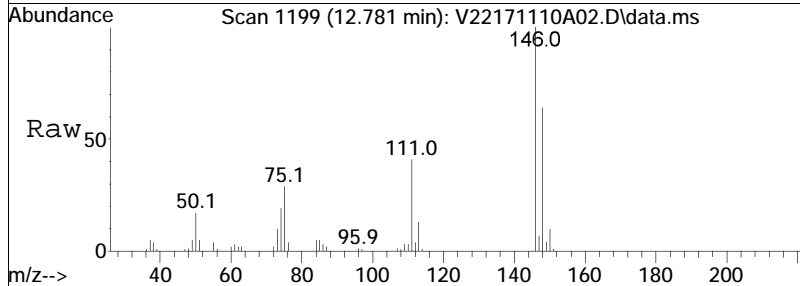
#105
 1,4-Dichlorobenzene
 Concen: 9.53 ug/L
 RT: 12.358 min Scan# 1150
 Delta R.T. -0.014 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

Tgt Ion	Resp	Lower	Upper
146	100		
111	38.7	28.9	43.3
148	63.6	51.4	77.2

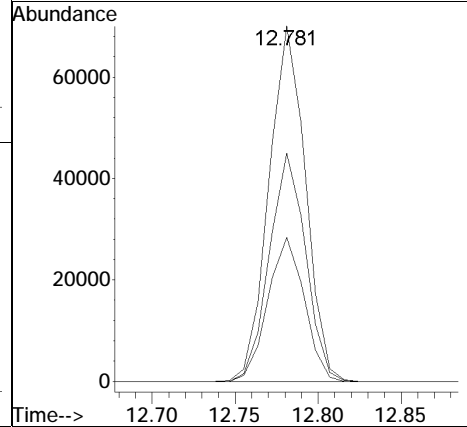
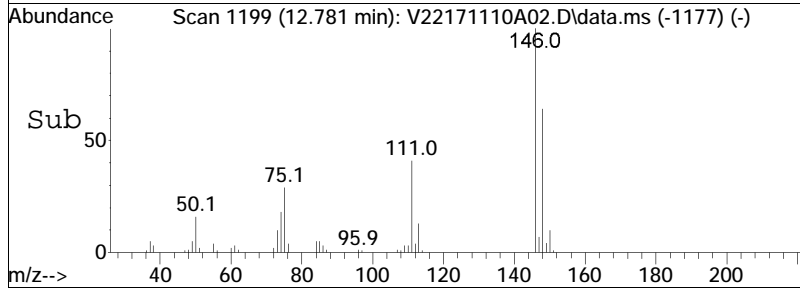


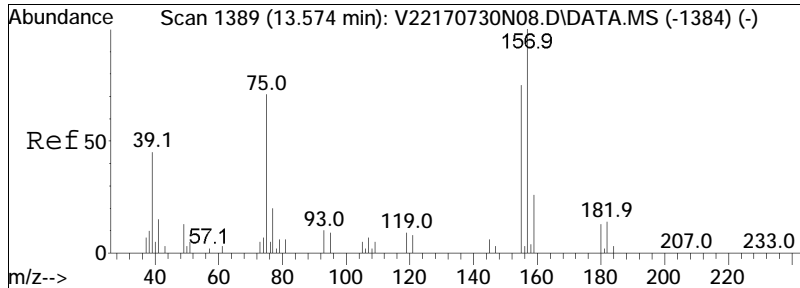


#108
 1,2-Dichlorobenzene
 Concen: 9.38 ug/L
 RT: 12.781 min Scan# 1199
 Delta R.T. -0.011 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am



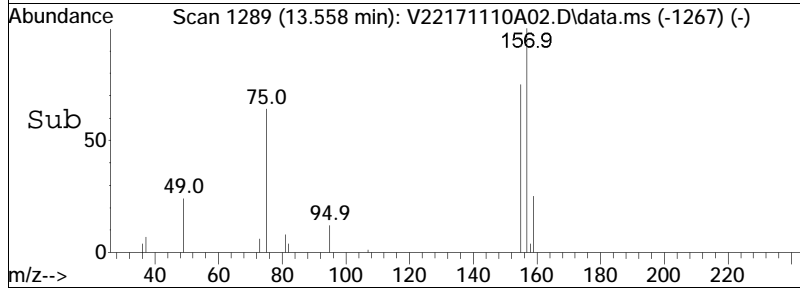
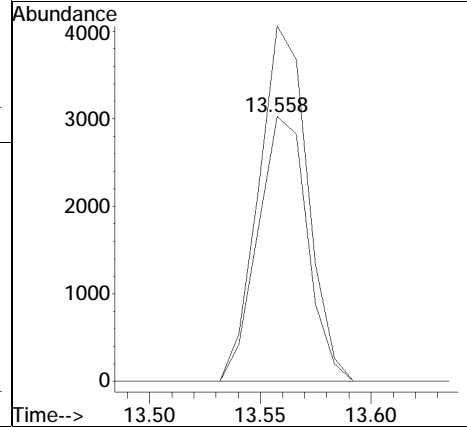
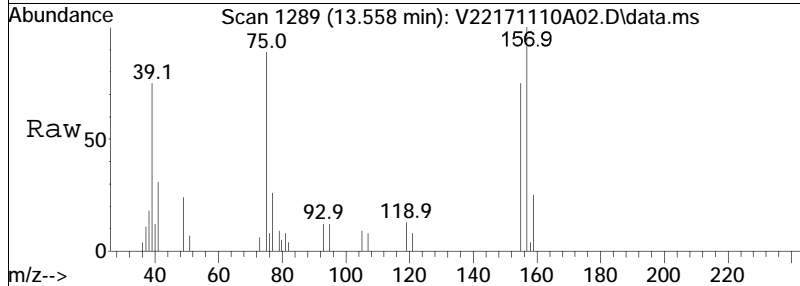
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	24.8	51.6
148	63.7	42.2	87.6

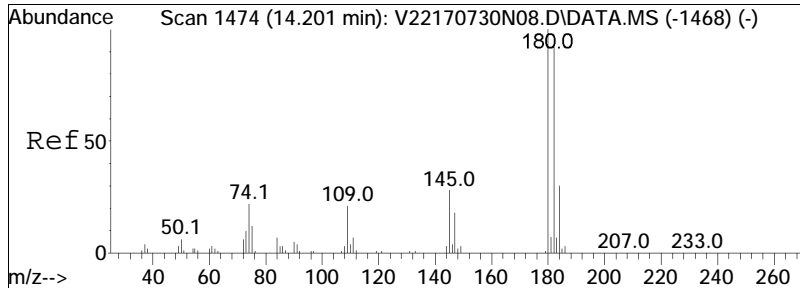




#110
 1,2-Dibromo-3-chloropropane
 Concen: 7.08 ug/L
 RT: 13.558 min Scan# 1289
 Delta R.T. -0.009 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

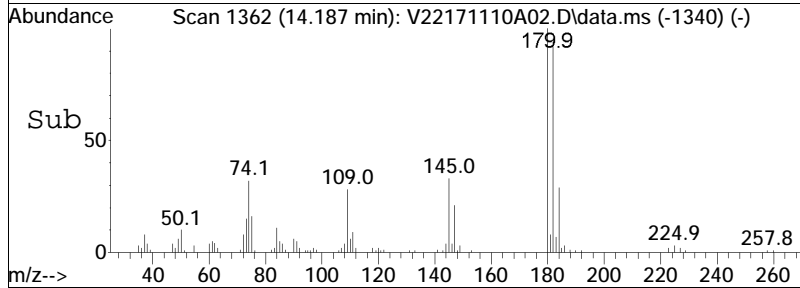
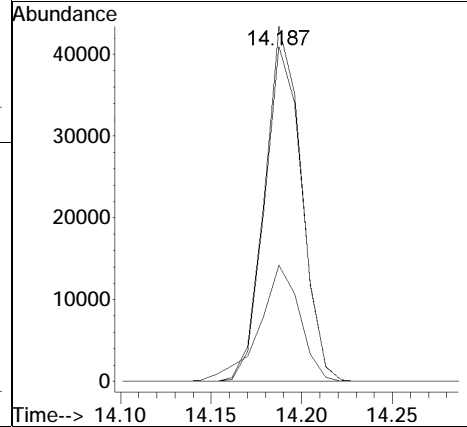
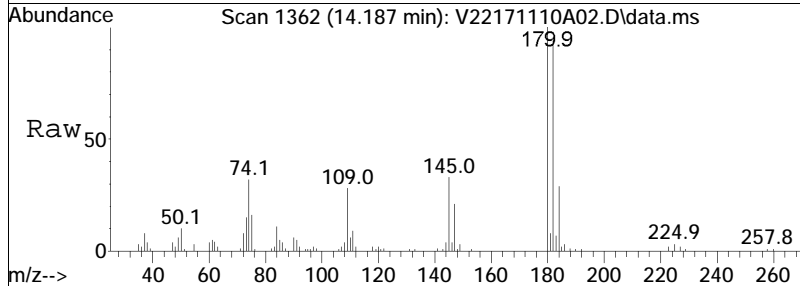
Tgt Ion	Resp	Lower	Upper
155	100		
157	132.3	102.3	153.5

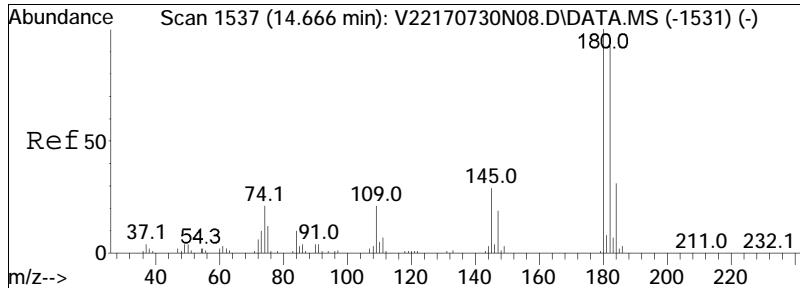




#113
 1,2,4-Trichlorobenzene
 Concen: 7.29 ug/L
 RT: 14.187 min Scan# 1362
 Delta R.T. -0.014 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

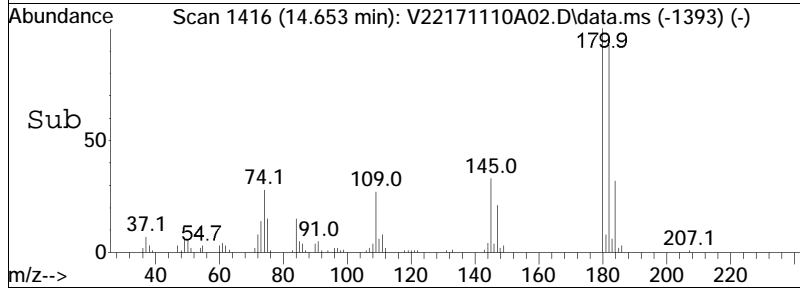
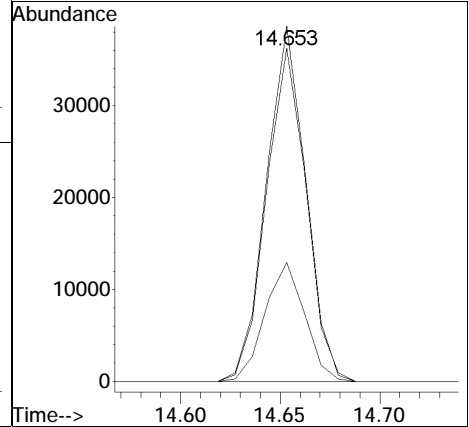
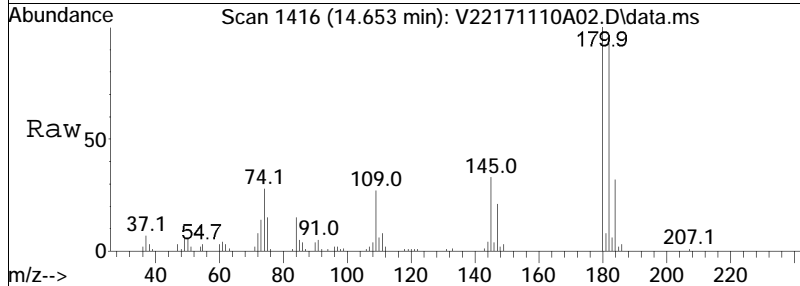
Tgt Ion	Resp	Lower	Upper
180	100		
182	95.7	76.6	114.8
145	36.0	25.5	38.3





#115
 1,2,3-Trichlorobenzene
 Concen: 7.03 ug/L
 RT: 14.653 min Scan# 1416
 Delta R.T. -0.006 min
 Lab File: V22171110A02.D
 Acq: 10 Nov 2017 08:47 am

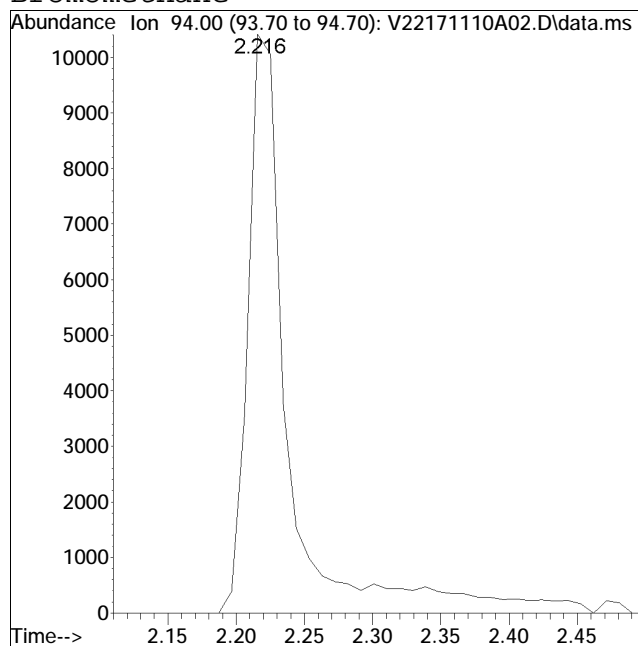
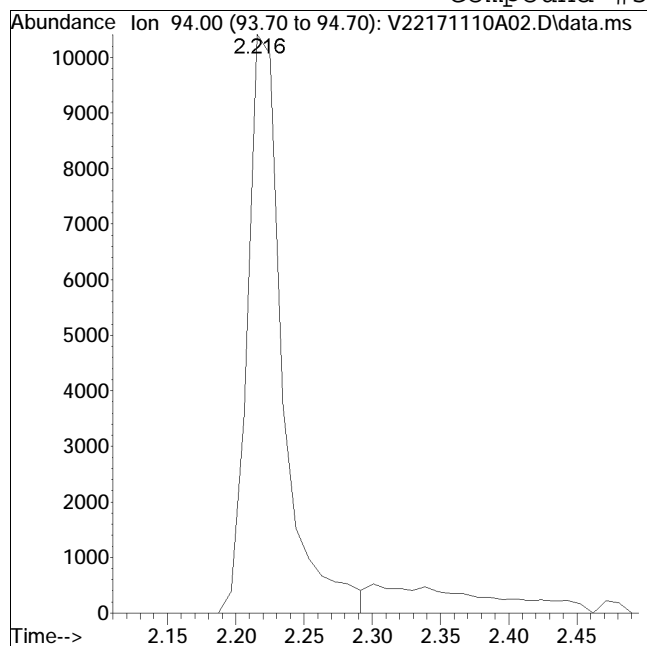
Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.0	114.0
145	33.8	23.8	35.8



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22171110A02.D Operator : VOA122:PD
Date Inj'd : 11/10/2017 8:47 am Instrument : VOA122
Sample : WG1061830-3,31,10,10 Quant Date : 11/10/2017 9:10 am

Compound #5: Bromomethane



Original Peak Response = 18667

Manual Peak Response = 21805 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A03.D
 Acq On : 10 Nov 2017 09:14 am
 Operator : VOA122:PD
 Sample : WG1061830-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 10 10:04:28 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Fluorobenzene	6.091	96	215006	10.000	ug/L	0.00	
Standard Area 1 = 209053			Recovery = 102.85%				
62) Chlorobenzene-d5	9.646	117	169966	10.000	ug/L	-0.01	
Standard Area 1 = 165135			Recovery = 102.93%				
83) 1,4-Dichlorobenzene-d4	12.341	152	87757	10.000	ug/L	0.00	
Standard Area 1 = 86857			Recovery = 101.04%				
System Monitoring Compounds							
38) Dibromofluoromethane	5.266	113	53602	9.646	ug/L	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.46%				
46) 1,2-Dichloroethane-d4	5.802	65	56410	10.968	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.68%				
63) Toluene-d8	7.790	98	217448	10.643	ug/L	-0.02	
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.43%				
87) 4-Bromofluorobenzene	11.133	95	82192	10.842	ug/L	-0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.42%				
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.629	85	46350	10.763	ug/L		97
3) Chloromethane	1.828	50	37595	7.663	ug/L		100
4) Vinyl chloride	1.903	62	66608	10.848	ug/L		98
5) Bromomethane	2.225	94	20484M1	5.096	ug/L		
6) Chloroethane	2.348	64	44897	12.156	ug/L		100
7) Trichlorofluoromethane	2.491	101	81164	9.597	ug/L		99
10) 1,1-Dichloroethene	2.992	96	44301	8.486	ug/L		88
11) Carbon disulfide	3.011	76	116928	8.720	ug/L		100
12) Freon-113	3.030	101	44491	9.747	ug/L		94
15) Methylene chloride	3.551	84	48579	8.732	ug/L		86
17) Acetone	3.599	43	5990	8.914	ug/L		99
18) trans-1,2-Dichloroethene	3.703	96	50295	8.340	ug/L		91
19) Methyl acetate	3.722	43	18353	10.496	ug/L		96
21) Methyl tert-butyl ether	3.807	73	105117	8.150	ug/L		93
25) 1,1-Dichloroethane	4.300	63	91565	9.601	ug/L		99
30) cis-1,2-Dichloroethene	4.820	96	55499	8.578	ug/L		90
32) Bromochloromethane	5.010	128	23886	8.770	ug/L	#	83
33) Cyclohexane	5.019	56	84499	10.561	ug/L		89
34) Chloroform	5.086	83	91842	9.266	ug/L		96
36) Carbon tetrachloride	5.228	117	74412	9.512	ug/L		98

Quantitation Report (QT Reviewed)

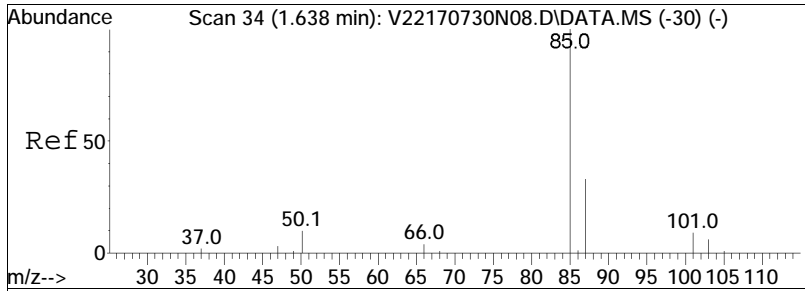
Data Path : I:\VOLATILES\VOA122\2017\171110A\
 Data File : V22171110A03.D
 Acq On : 10 Nov 2017 09:14 am
 Operator : VOA122:PD
 Sample : WG1061830-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG1061830,ICAL13890 (Sig #1); WG,ICAL13890 (Sig #2)
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 10 10:04:28 2017
 Quant Method : I:\VOLATILES\VOA122\2017\171110A\V122_170804A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Sat Aug 05 11:45:14 2017
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA122\2017\171110A\V22171110A02.D
 Sub List : 8260-Curve - Megamix plus Diox

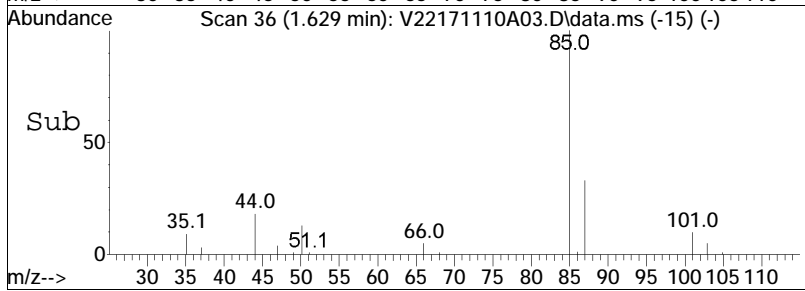
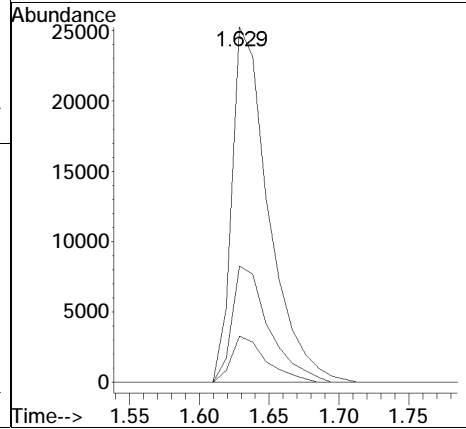
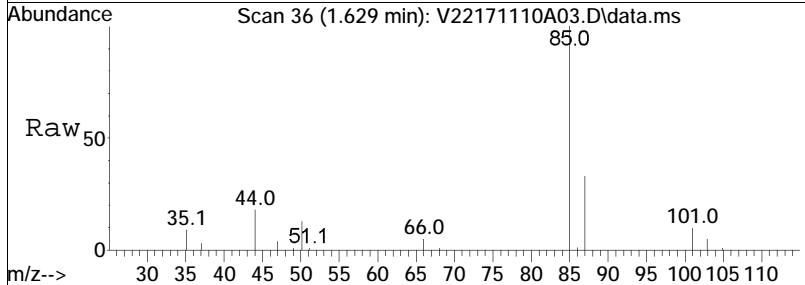
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-Trichloroethane	5.294	97	85272	9.051	ug/L	96
41) 2-Butanone	5.389	43	10391	10.580	ug/L	97
44) Benzene	5.668	78	225284	9.688	ug/L	95
47) 1,2-Dichloroethane	5.864	62	59780	9.904	ug/L	98
50) Methylcyclohexane	6.256	83	87019	9.569	ug/L	86
51) Trichloroethene	6.256	95	54462	9.064	ug/L	96
54) 1,2-Dichloropropane	6.813	63	49120	9.733	ug/L	99
57) Bromodichloromethane	6.875	83	66508	8.826	ug/L	100
60) 1,4-Dioxane	7.092	88	3582	394.983	ug/L #	83
61) cis-1,3-Dichloropropene	7.582	75	72753	8.391	ug/L #	91
64) Toluene	7.856	92	132514	9.595	ug/L	99
65) 4-Methyl-2-pentanone	8.302	58	9714	9.620	ug/L	91
66) Tetrachloroethene	8.292	166	58446	8.180	ug/L	93
68) trans-1,3-Dichloropropene	8.330	75	61629	9.027	ug/L	91
71) 1,1,2-Trichloroethane	8.519	83	31478	9.636	ug/L	97
72) Chlorodibromomethane	8.728	129	44777	8.690	ug/L	98
74) 1,2-Dibromoethane	9.012	107	35045	8.464	ug/L	100
76) 2-Hexanone	9.315	43	14943	10.182	ug/L	93
77) Chlorobenzene	9.665	112	147750	9.198	ug/L	97
78) Ethylbenzene	9.712	91	259381	9.556	ug/L	99
80) p/m Xylene	9.902	106	204104	18.773	ug/L	97
81) o Xylene	10.442	106	219692	22.022	ug/L	87
82) Styrene	10.517	104	143103	8.890	ug/L	96
84) Bromoform	10.517	173	19013	5.649	ug/L	99
86) Isopropylbenzene	10.820	105	276559	10.088	ug/L	98
91) 1,1,2,2-Tetrachloroethane	11.370	83	41560	10.212	ug/L	99
104) 1,3-Dichlorobenzene	12.264	146	122202	9.512	ug/L	98
105) 1,4-Dichlorobenzene	12.359	146	121753	9.594	ug/L	98
108) 1,2-Dichlorobenzene	12.781	146	108081	9.364	ug/L	98
110) 1,2-Dibromo-3-chloropr...	13.558	155	5121	7.618	ug/L	99
113) 1,2,4-Trichlorobenzene	14.188	180	62984	7.412	ug/L	97
115) 1,2,3-Trichlorobenzene	14.653	180	54282	7.096	ug/L	97

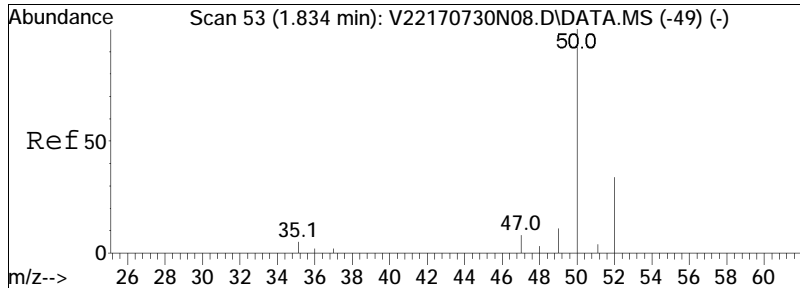
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
 Dichlorodifluoromethane
 Concn: 10.76 ug/L
 RT: 1.629 min Scan# 36
 Delta R.T. 0.001 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

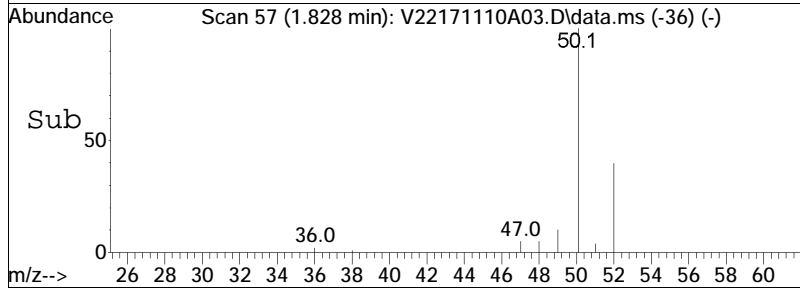
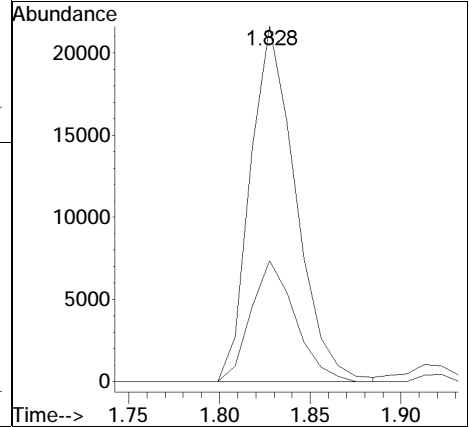
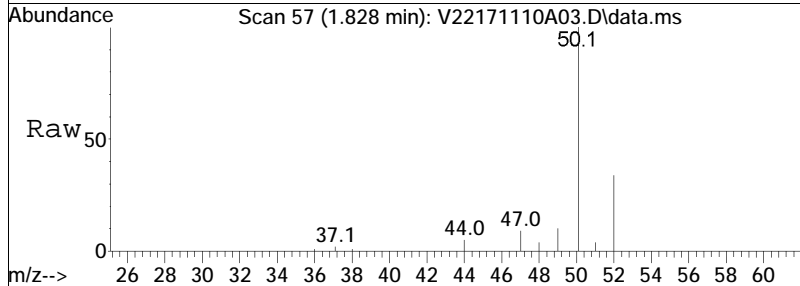
Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.0	20.7	42.9
50	12.5	6.8	14.2

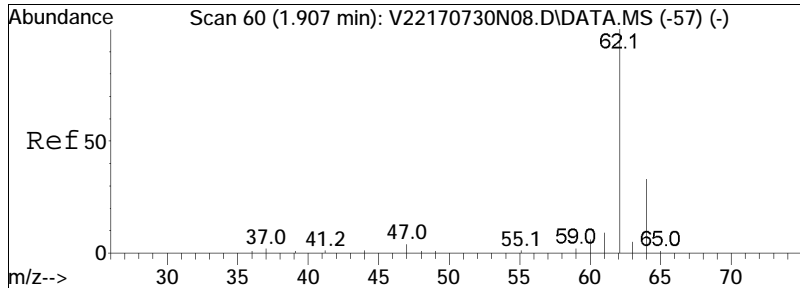




#3
 Chloromethane
 Concen: 7.66 ug/L
 RT: 1.828 min Scan# 57
 Delta R.T. 0.004 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

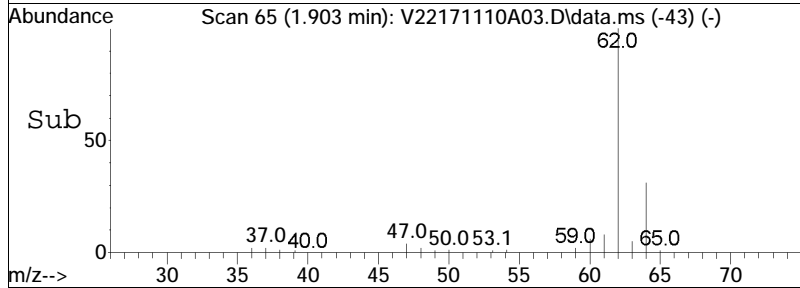
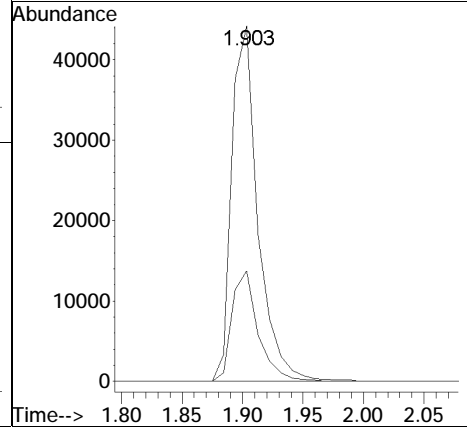
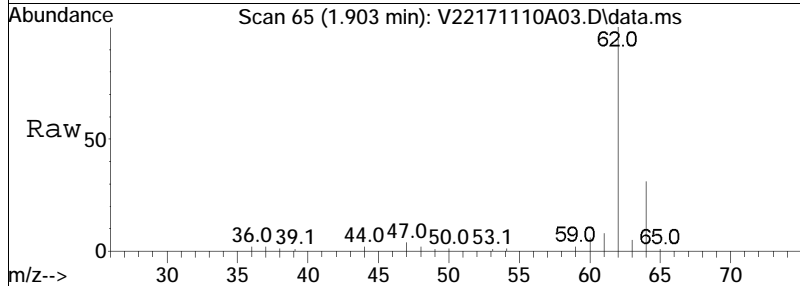
Tgt Ion: 50 Resp: 37595
 Ion Ratio Lower Upper
 50 100
 52 33.1 12.8 52.8

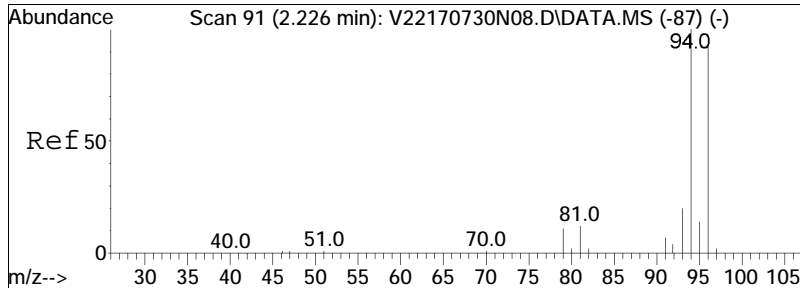




#4
 Vinyl chloride
 Concen: 10.85 ug/L
 RT: 1.903 min Scan# 65
 Delta R.T. 0.007 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

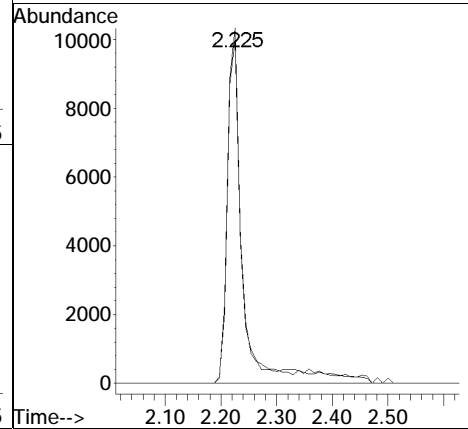
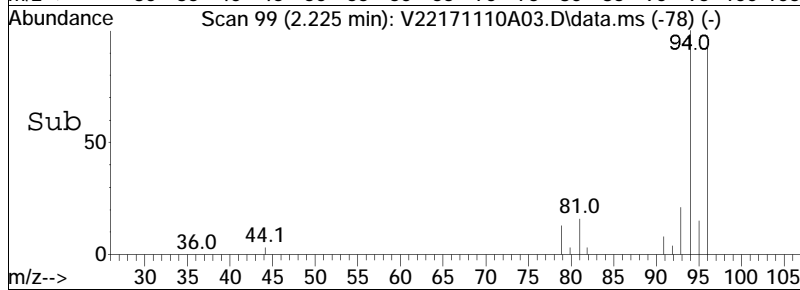
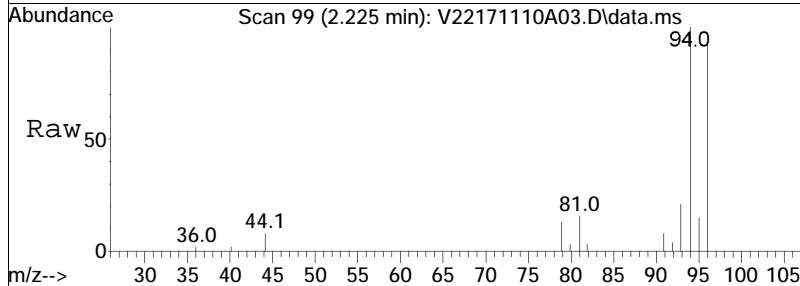
Tgt Ion	Resp	Lower	Upper
62	100		
64	31.1	12.0	52.0

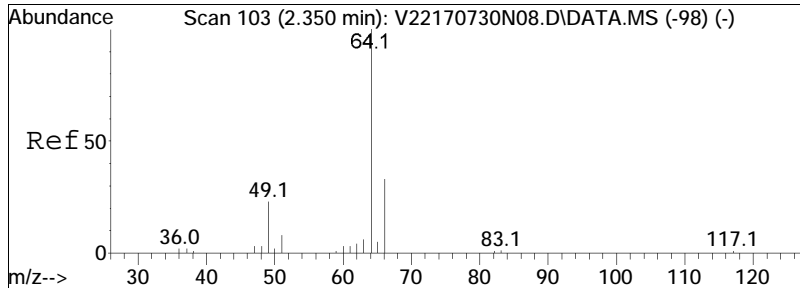




#5
 Bromomethane
 Concen: 5.10 ug/L M1
 RT: 2.225 min Scan# 99
 Delta R.T. -0.001 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

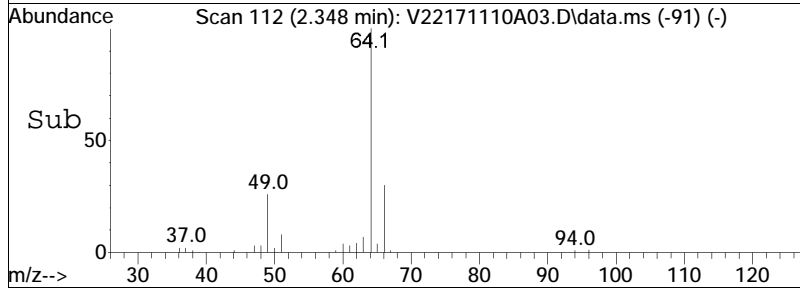
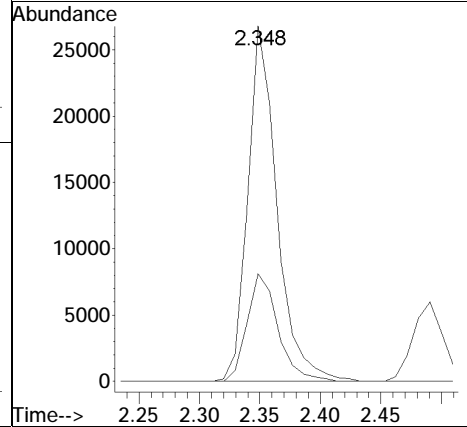
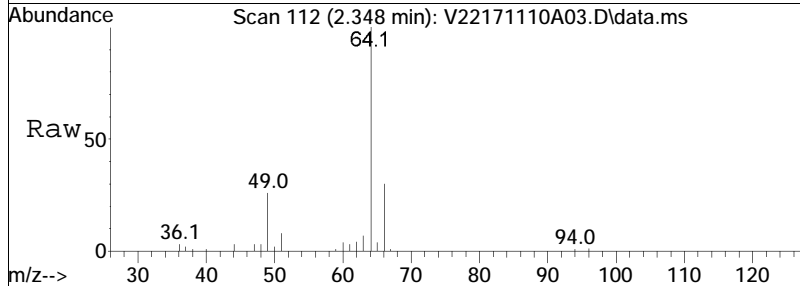
Tgt Ion	Resp	Lower	Upper
94	100		
96	85.7	72.8	112.8

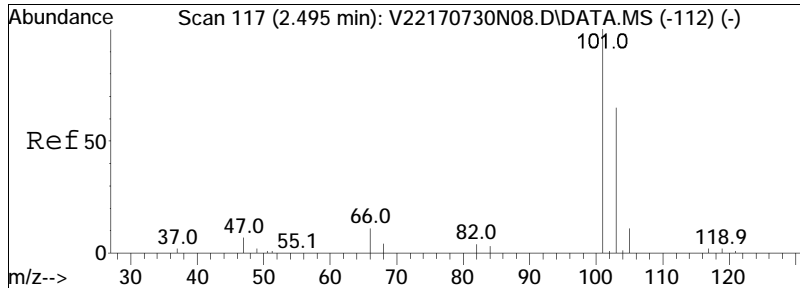




#6
 Chloroethane
 Concen: 12.16 ug/L
 RT: 2.348 min Scan# 112
 Delta R.T. -0.002 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

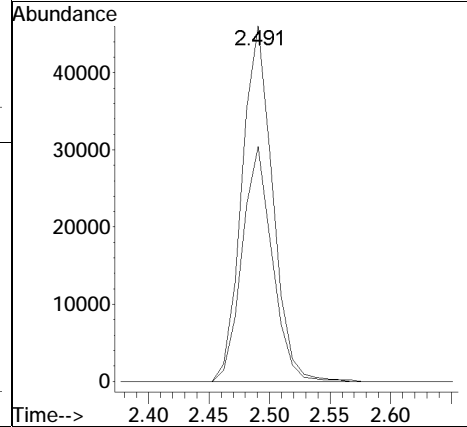
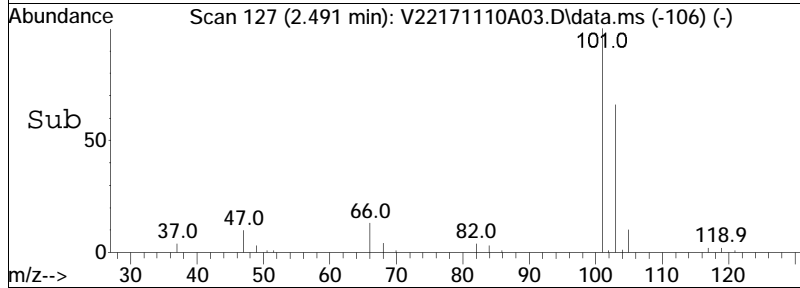
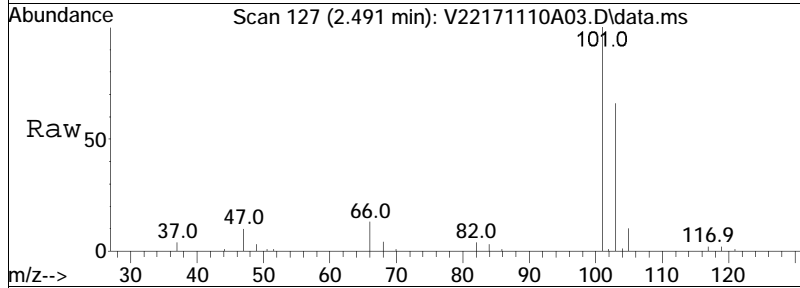
Tgt Ion	Resp	Lower	Upper
64	100		
66	32.1	12.2	52.2

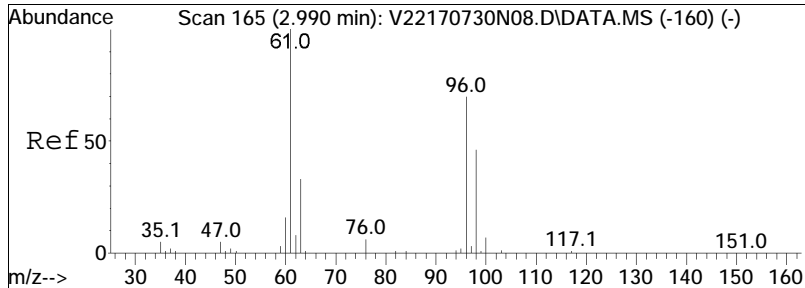




#7
 Trichlorofluoromethane
 Concen: 9.60 ug/L
 RT: 2.491 min Scan# 127
 Delta R.T. -0.004 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

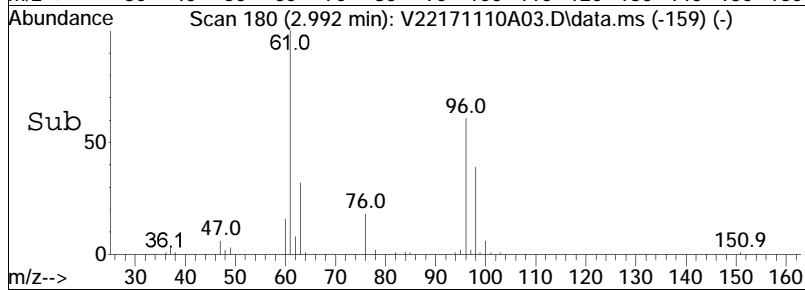
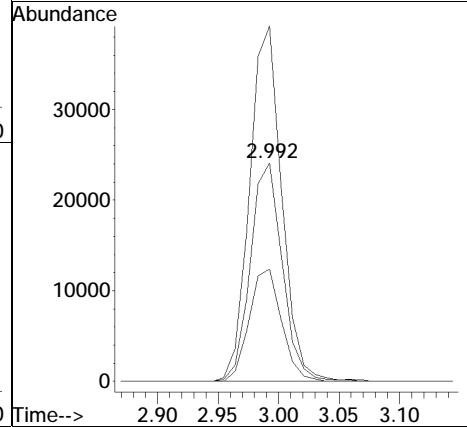
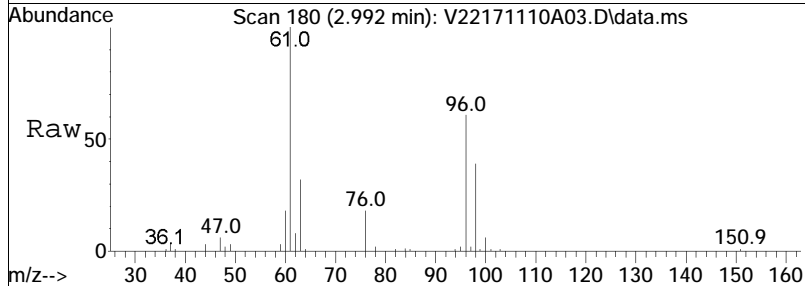
Tgt Ion	Resp	Lower	Upper
101	100		
103	65.0	51.6	77.4

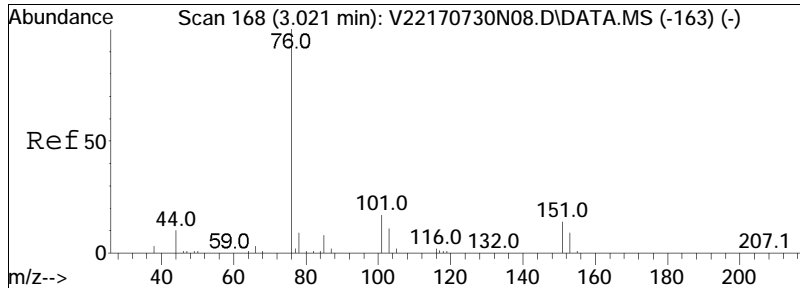




#10
 1,1-Dichloroethene
 Concen: 8.49 ug/L
 RT: 2.992 min Scan# 180
 Delta R.T. 0.002 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

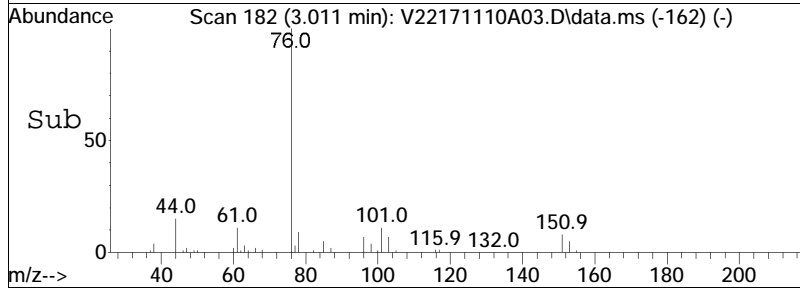
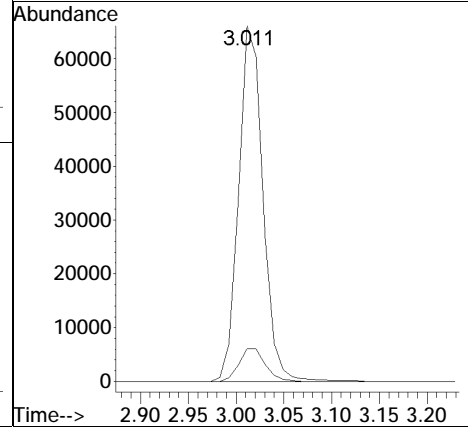
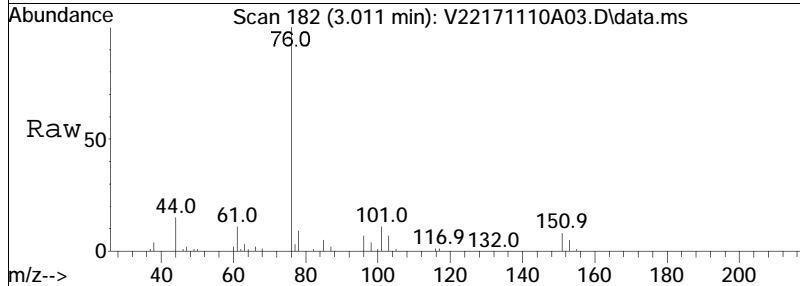
Tgt Ion:	96	Resp:	44301
Ion Ratio	Lower	Upper	
96	100		
61	163.8	117.0	175.4
63	52.1	37.8	56.6

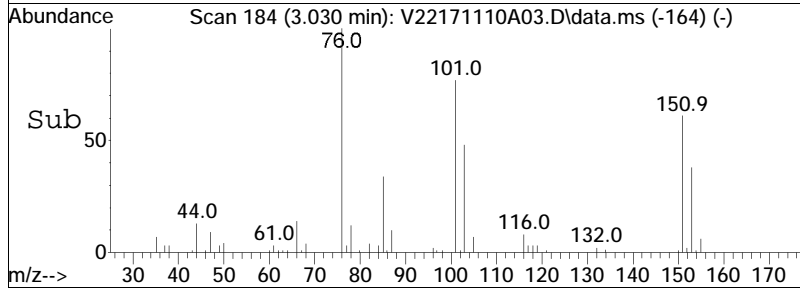
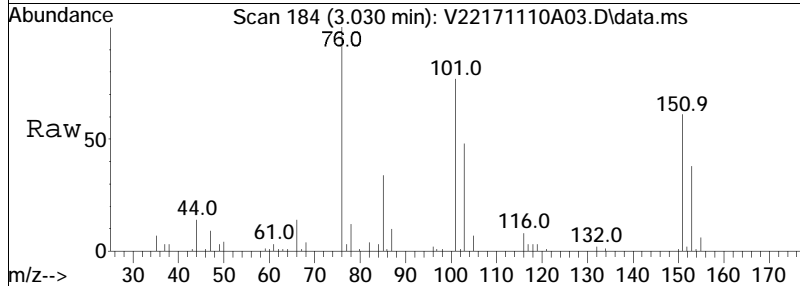
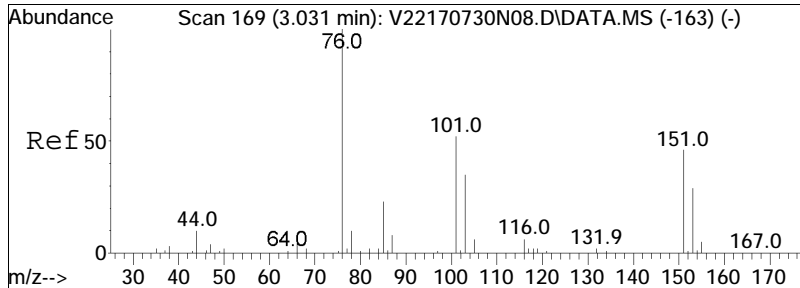




#11
 Carbon disulfide
 Concen: 8.72 ug/L
 RT: 3.011 min Scan# 182
 Delta R.T. -0.010 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

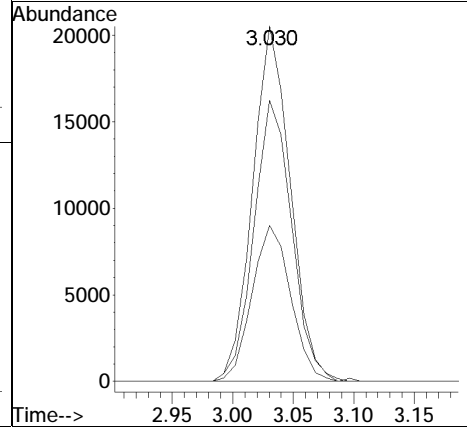
Tgt Ion	Resp	Lower	Upper
76	116928		
78	10.0	6.4	13.4

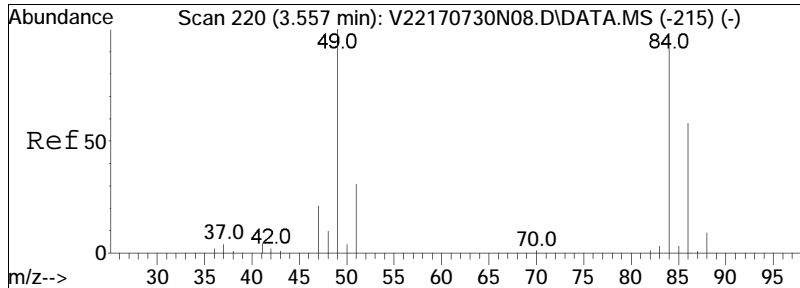




#12
 Freon-113
 Concen: 9.75 ug/L
 RT: 3.030 min Scan# 184
 Delta R.T. -0.012 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

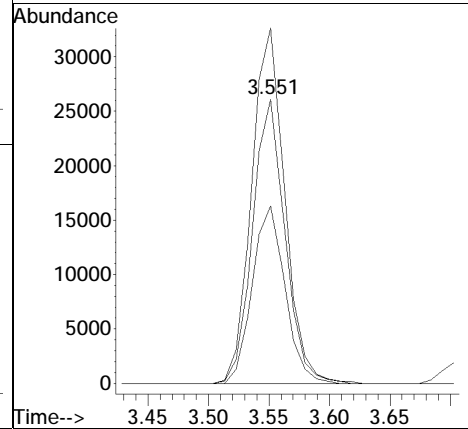
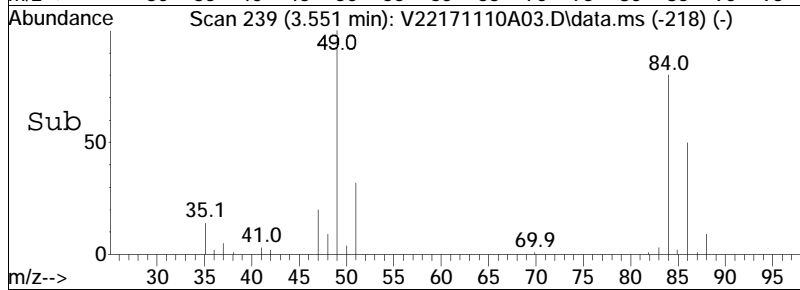
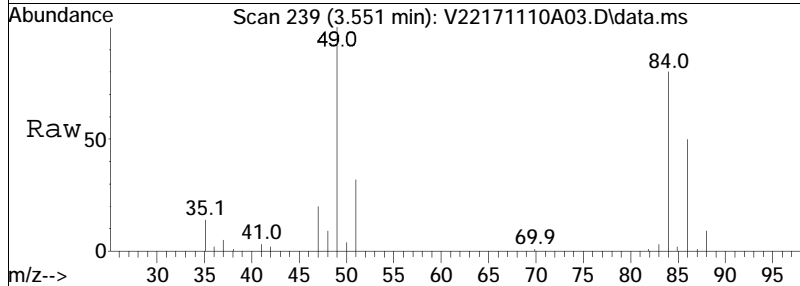
Tgt Ion	Ratio	Lower	Upper
101	100		
151	79.6	68.5	102.7
85	45.1	33.1	49.7

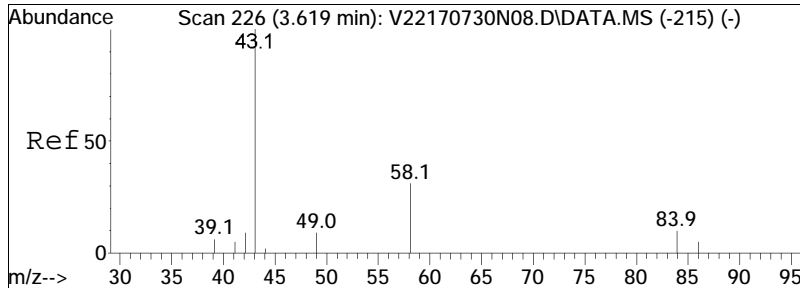




#15
 Methylene chloride
 Concen: 8.73 ug/L
 RT: 3.551 min Scan# 239
 Delta R.T. -0.006 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

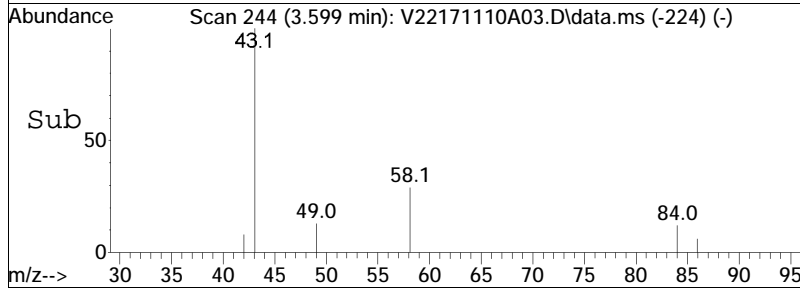
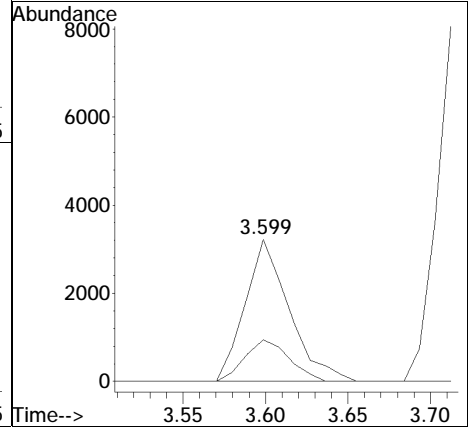
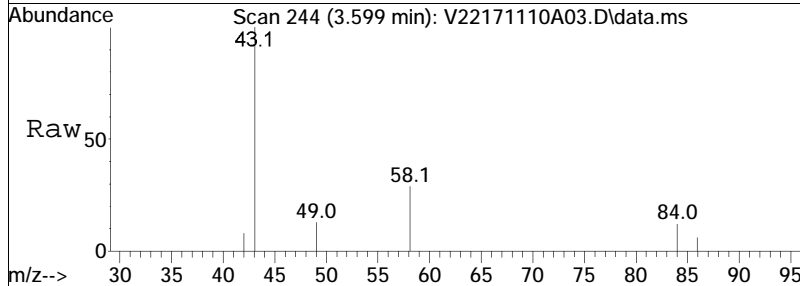
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
84	100		
86	63.1	41.5	86.3
49	127.7	68.8	143.0

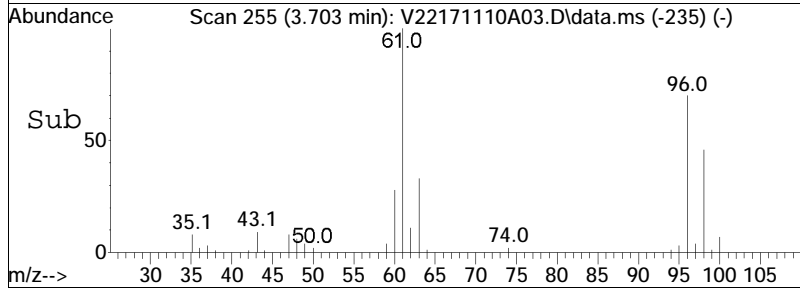
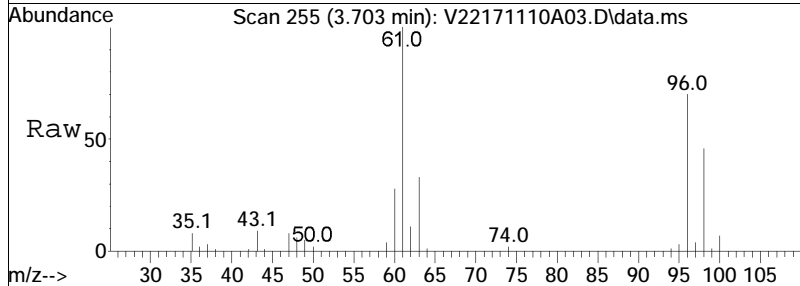
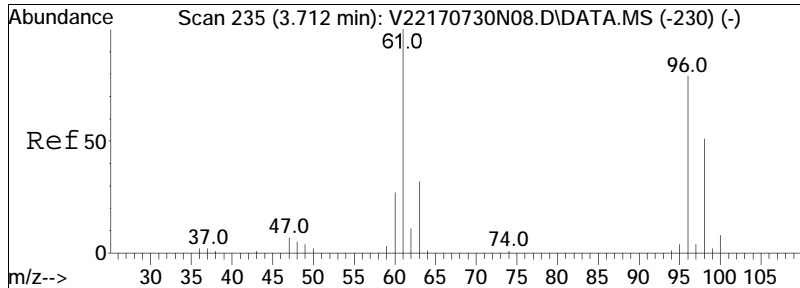




#17
 Acetone
 Concen: 8.91 ug/L
 RT: 3.599 min Scan# 244
 Delta R.T. -0.010 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

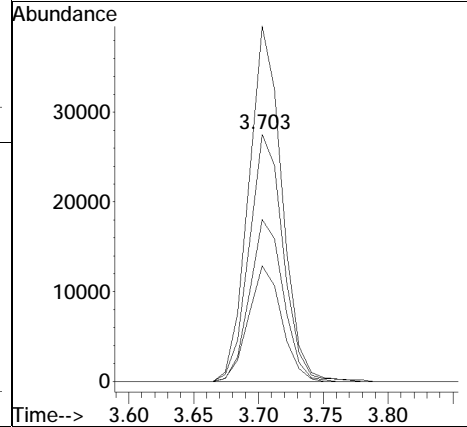
Tgt Ion: 43 Resp: 5990
 Ion Ratio Lower Upper
 43 100
 58 29.5 23.1 34.7

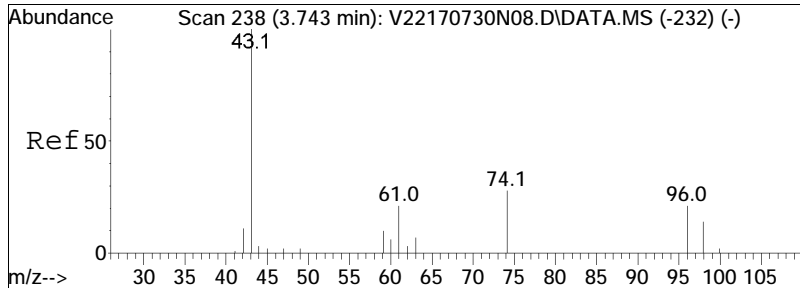




#18
 trans-1,2-Dichloroethene
 Concen: 8.34 ug/L
 RT: 3.703 min Scan# 255
 Delta R.T. -0.009 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

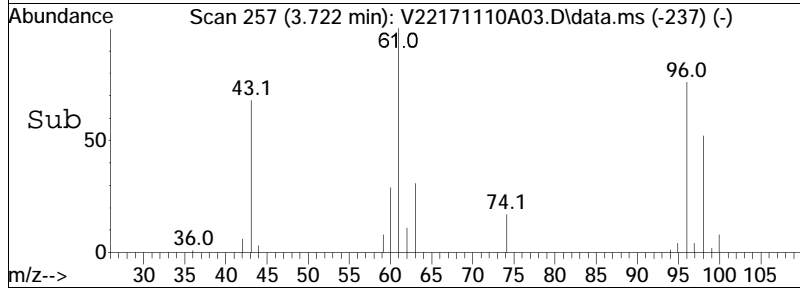
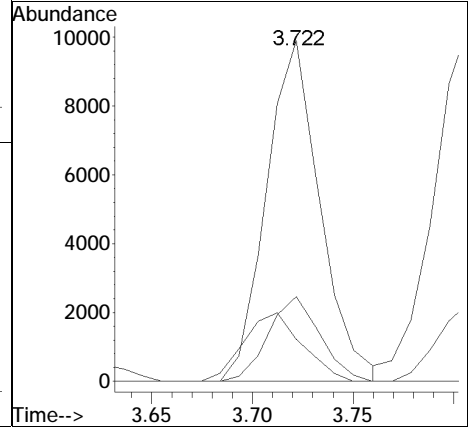
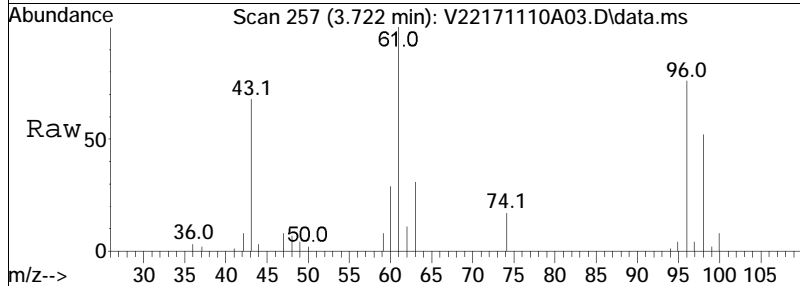
Tgt Ion	Resp	Lower	Upper
96	50295		
61	140.9	81.6	169.6
98	64.9	41.8	86.8
63	45.6	26.3	54.7

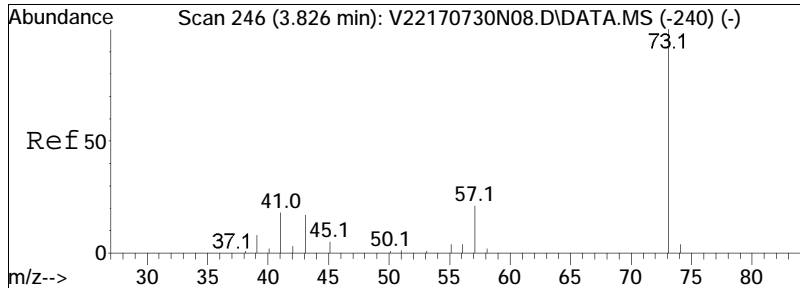




#19
 Methyl acetate
 Concen: 10.50 ug/L
 RT: 3.722 min Scan# 257
 Delta R.T. -0.011 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

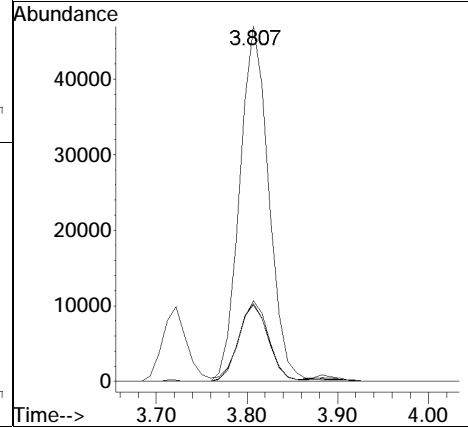
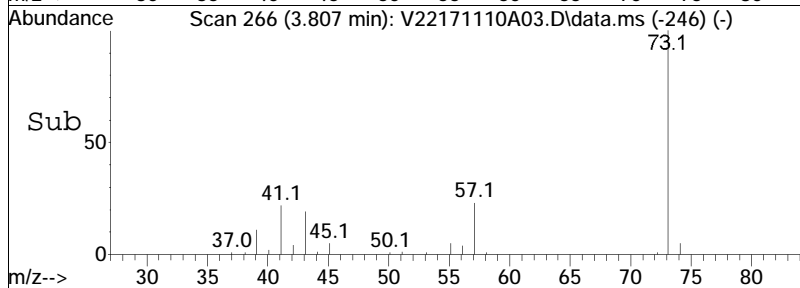
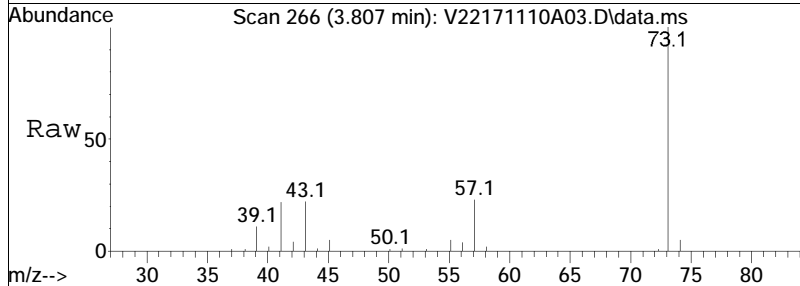
Tgt Ion:	Resp:	Lower	Upper
43	100		
74	23.9	21.8	32.6
59	22.0	18.1	27.1

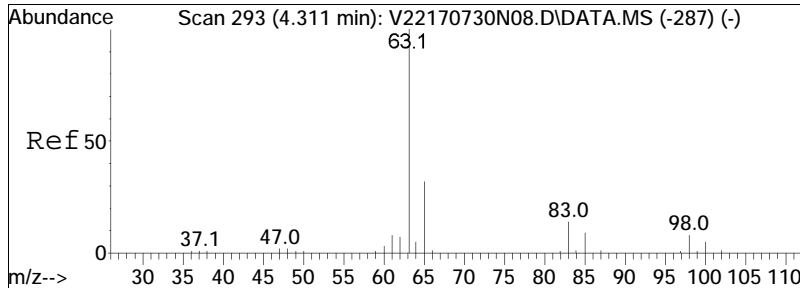




#21
 Methyl tert-butyl ether
 Concen: 8.15 ug/L
 RT: 3.807 min Scan# 266
 Delta R.T. -0.008 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

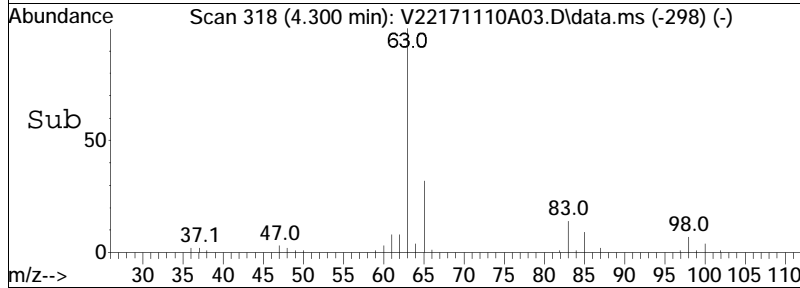
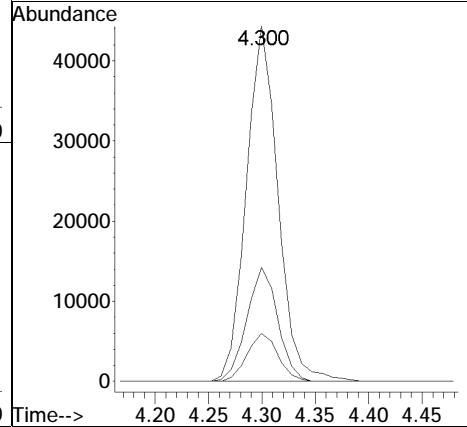
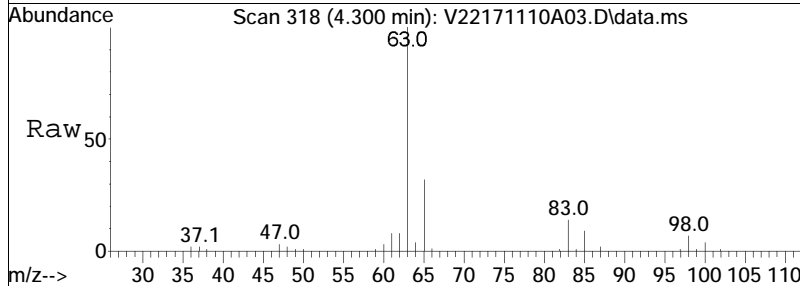
Tgt Ion	Resp	Lower	Upper
73	105117		
57	23.0	13.6	28.2
43	22.6	12.7	26.5
41	22.2	11.4	23.8

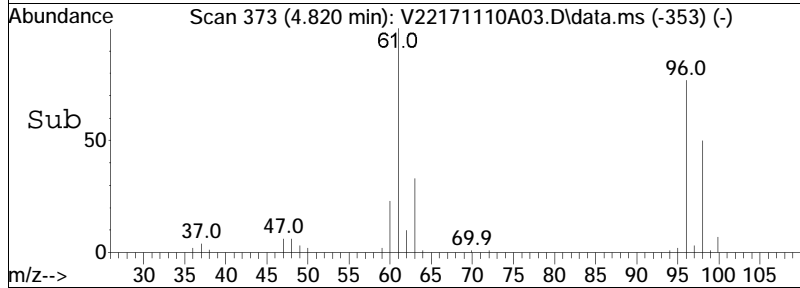
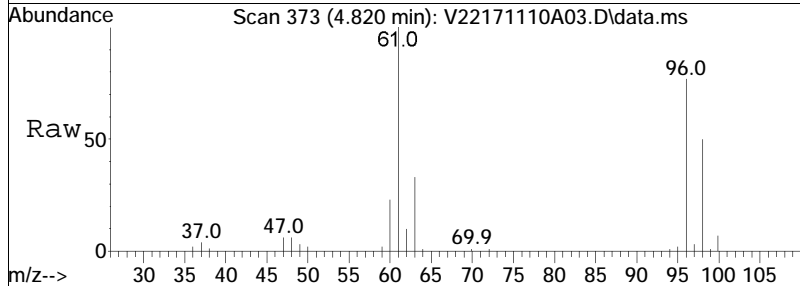
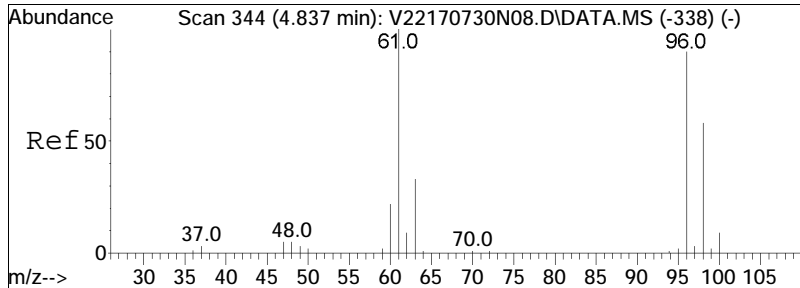




#25
 1,1-Dichloroethane
 Concen: 9.60 ug/L
 RT: 4.300 min Scan# 318
 Delta R.T. -0.011 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

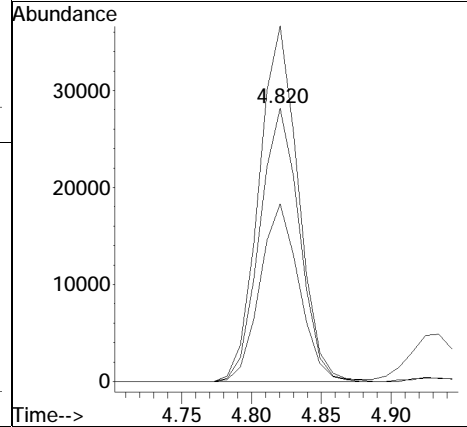
Tgt Ion	Resp	Lower	Upper
63	100		
65	31.3	11.9	51.9
83	13.2	0.0	34.2

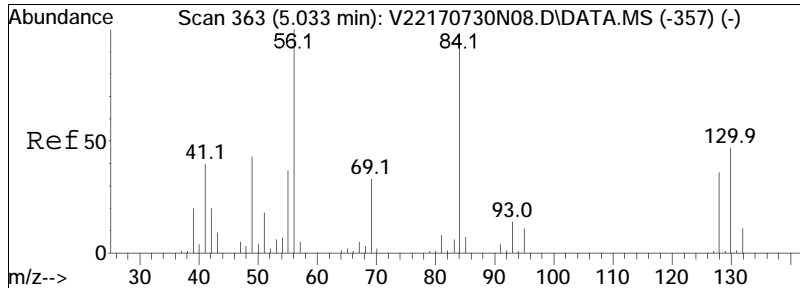




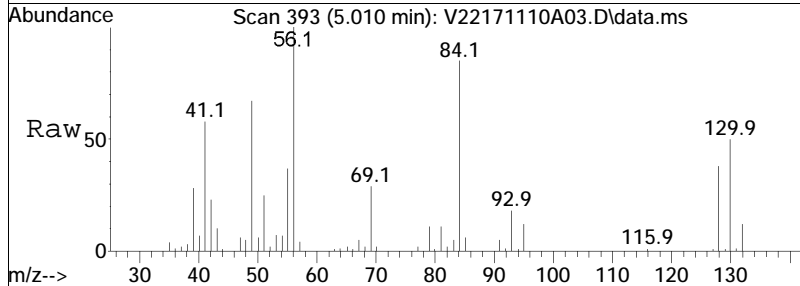
#30
 cis-1,2-Dichloroethene
 Concen: 8.58 ug/L
 RT: 4.820 min Scan# 373
 Delta R.T. -0.007 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

Tgt Ion:	96	Resp:	55499
Ion Ratio	Lower	Upper	
96	100		
61	129.1	90.3	135.5
98	64.1	50.8	76.2

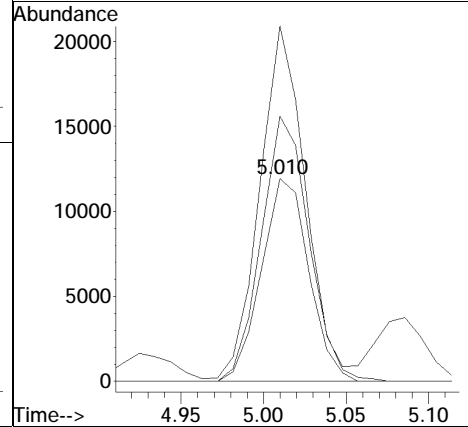
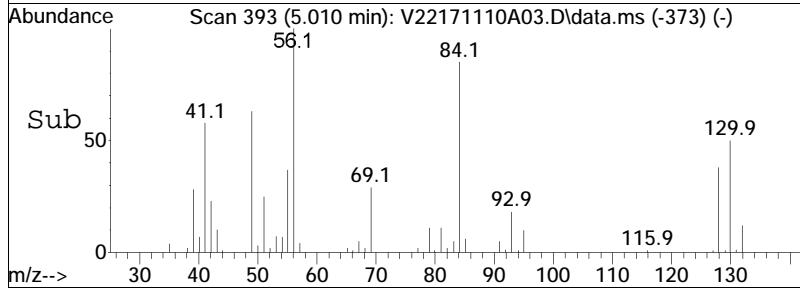


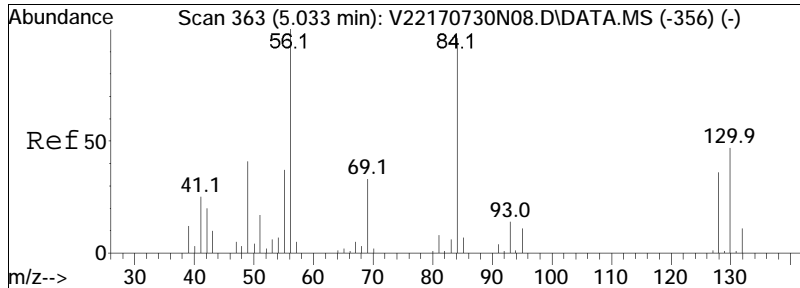


#32
 Bromochloromethane
 Concen: 8.77 ug/L
 RT: 5.010 min Scan# 393
 Delta R.T. -0.013 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am



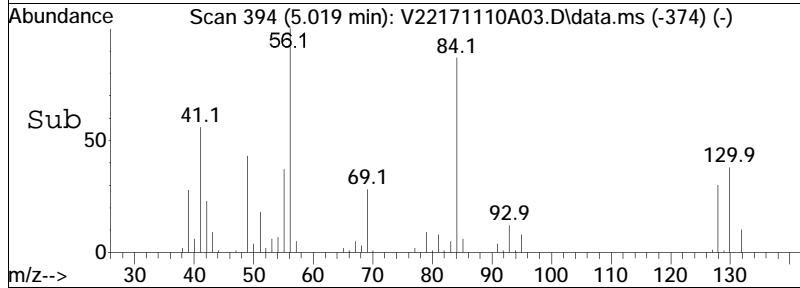
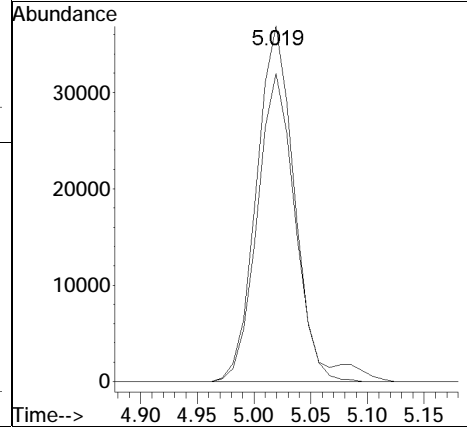
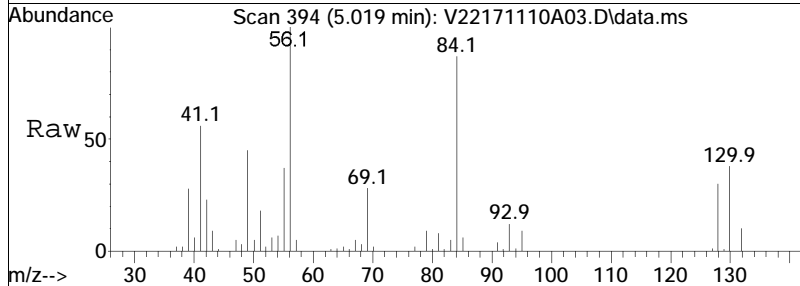
Tgt Ion	Resp	Lower	Upper
128	23886		
128	100		
49	168.0	104.4	156.6#
130	131.3	103.9	155.9

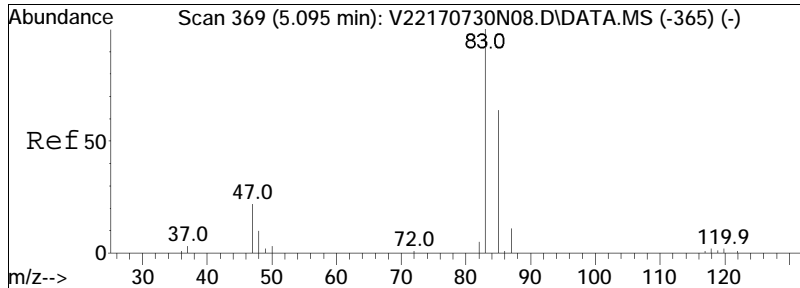




#33
 Cyclohexane
 Concen: 10.56 ug/L
 RT: 5.019 min Scan# 394
 Delta R.T. -0.014 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

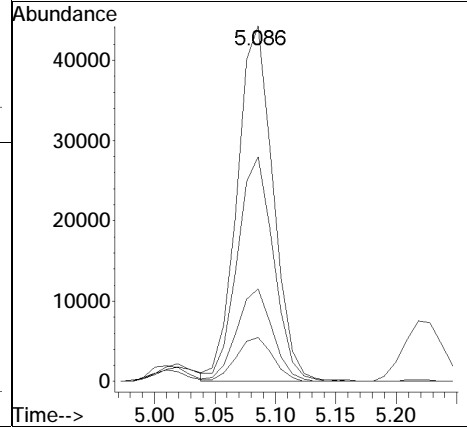
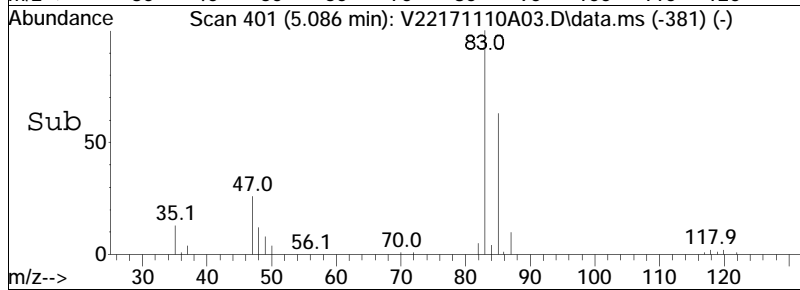
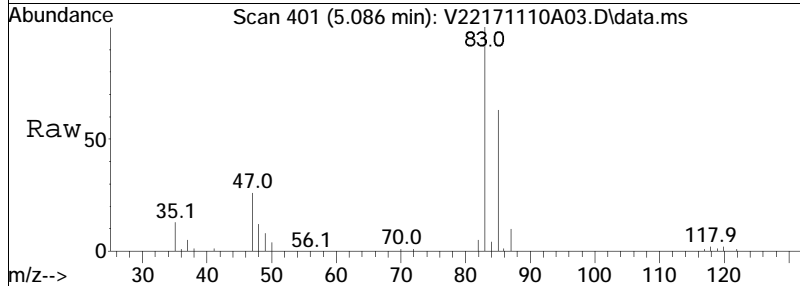
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
56	100		
84	90.8	66.0	137.2

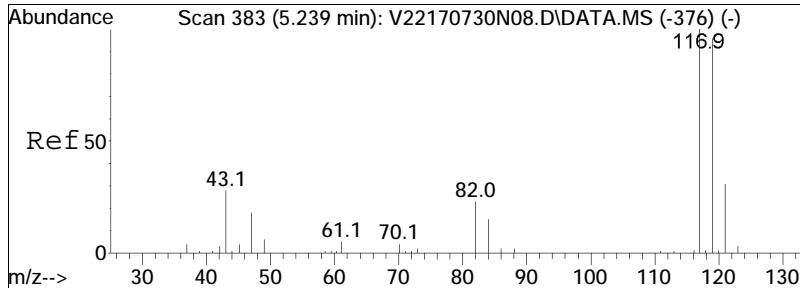




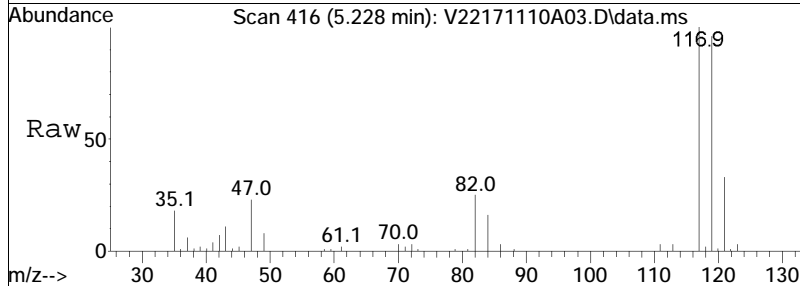
#34
 Chloroform
 Concen: 9.27 ug/L
 RT: 5.086 min Scan# 401
 Delta R.T. -0.009 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

Tgt Ion	Resp	Lower	Upper
83	100		
85	63.9	42.4	88.2
47	25.9	14.0	29.0
48	12.6	6.9	14.3

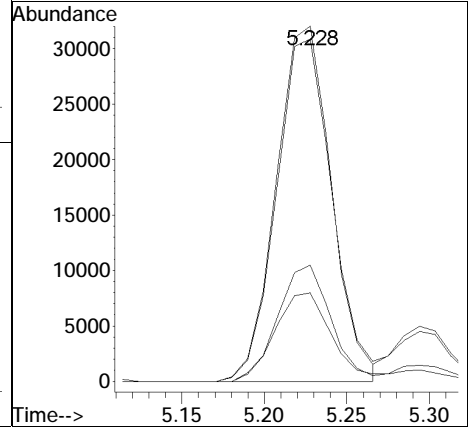
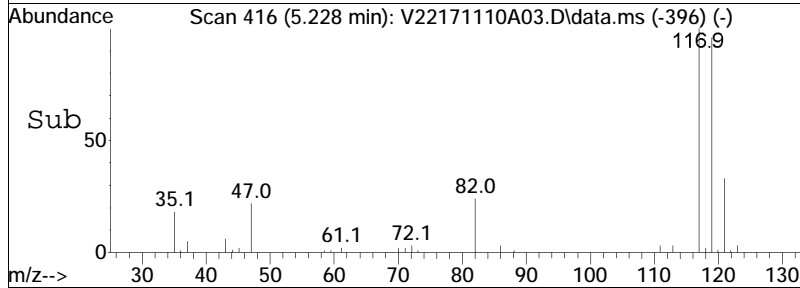


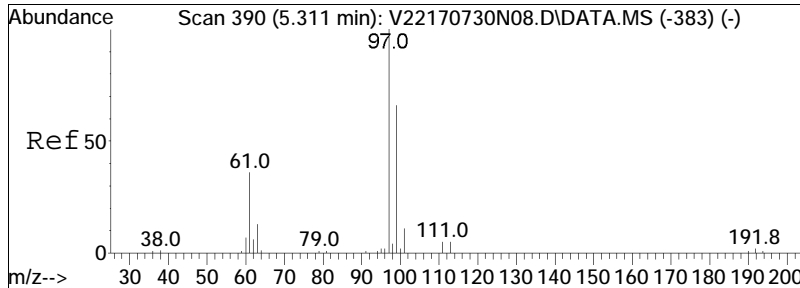


#36
 Carbon tetrachloride
 Concen: 9.51 ug/L
 RT: 5.228 min Scan# 416
 Delta R.T. -0.011 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am



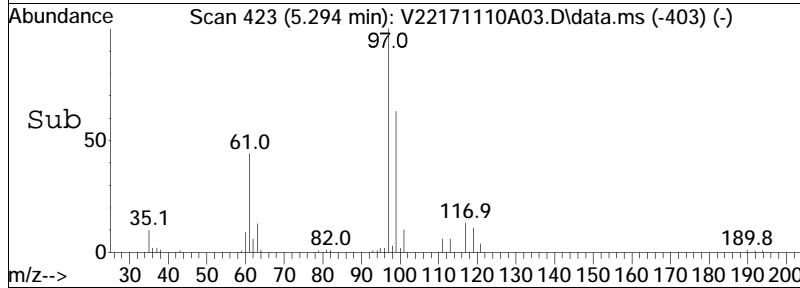
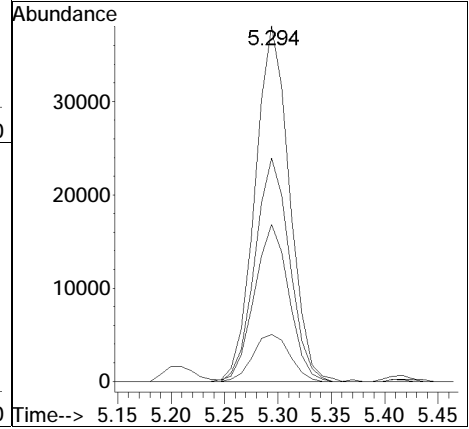
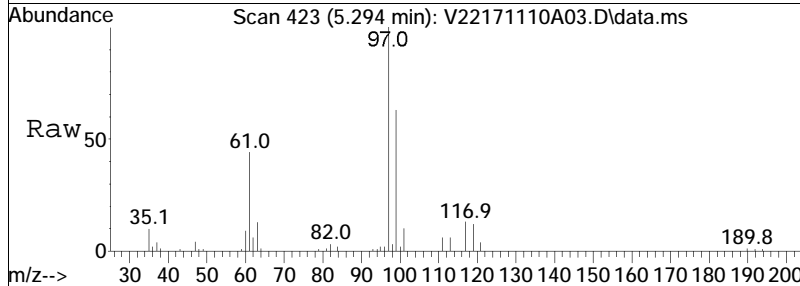
Tgt Ion	Resp	Lower	Upper
117	100		
119	97.2	62.1	129.1
121	31.6	20.3	42.3
82	26.1	15.4	32.0

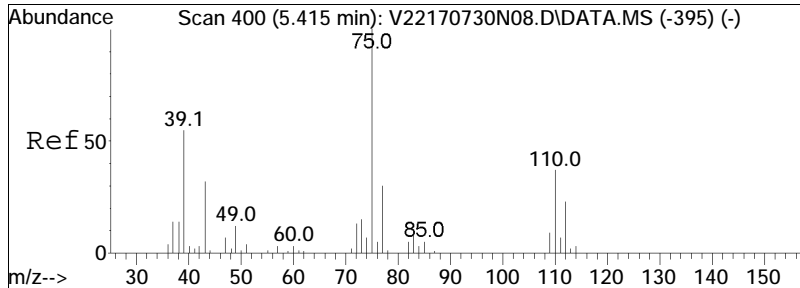




#39
 1,1,1-Trichloroethane
 Concen: 9.05 ug/L
 RT: 5.294 min Scan# 423
 Delta R.T. -0.007 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

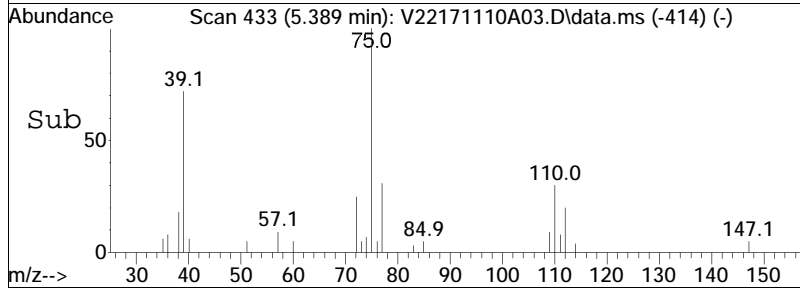
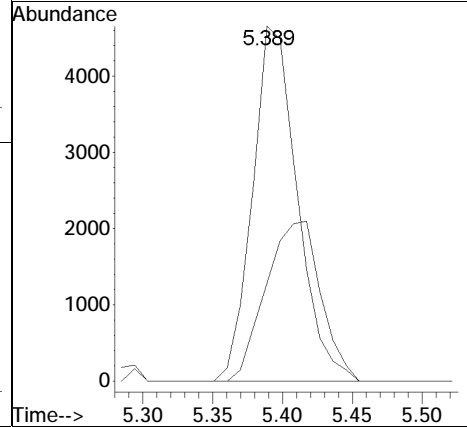
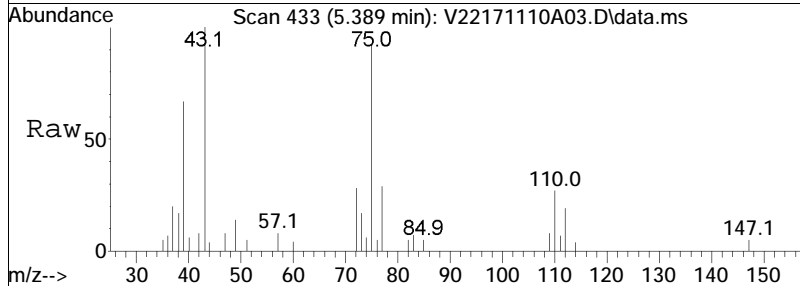
Tgt Ion	Resp	Lower	Upper
97	100		
99	63.2	42.4	88.0
61	44.5	26.0	54.0
63	14.2	8.3	17.3

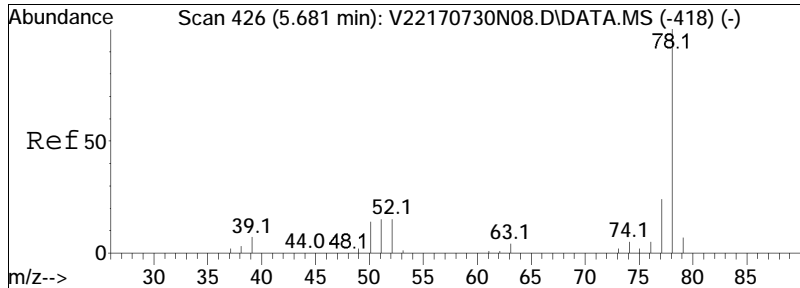




#41
 2-Butanone
 Concen: 10.58 ug/L
 RT: 5.389 min Scan# 433
 Delta R.T. -0.015 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

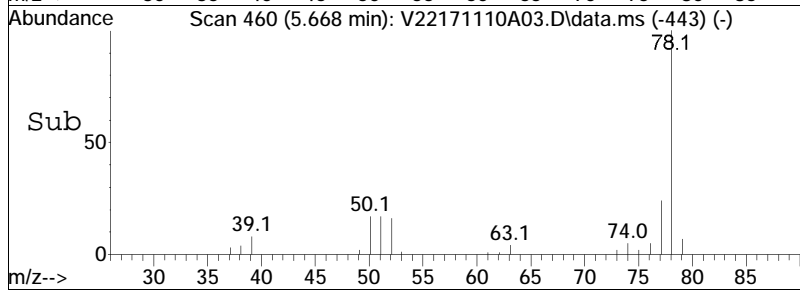
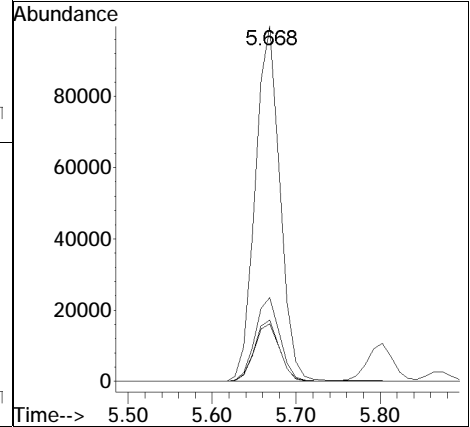
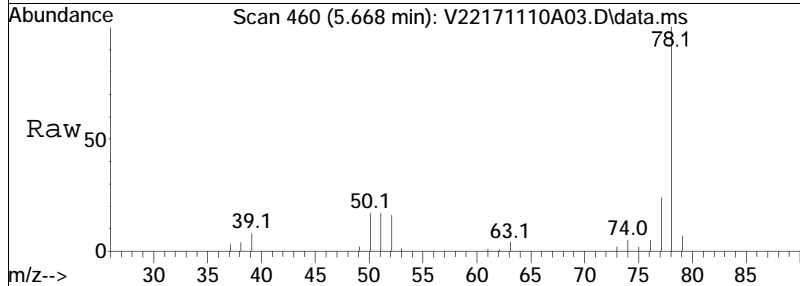
Tgt Ion: 43 Resp: 10391
 Ion Ratio Lower Upper
 43 100
 72 55.2 45.8 68.8

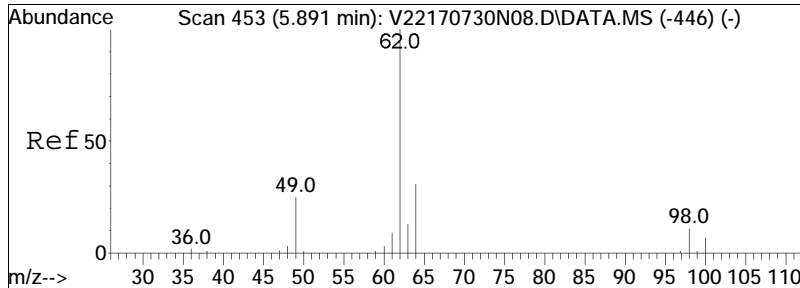




#44
Benzene
Concen: 9.69 ug/L
RT: 5.668 min Scan# 460
Delta R.T. -0.013 min
Lab File: V22171110A03.D
Acq: 10 Nov 2017 09:14 am

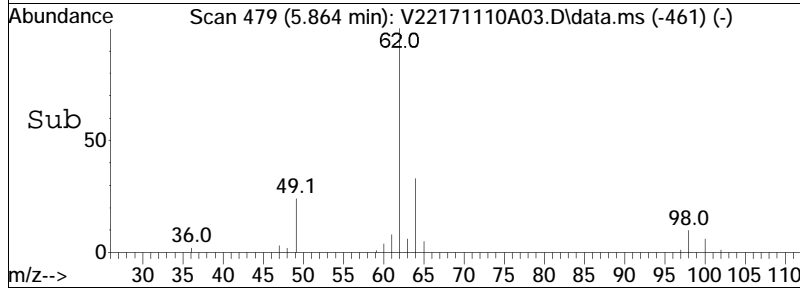
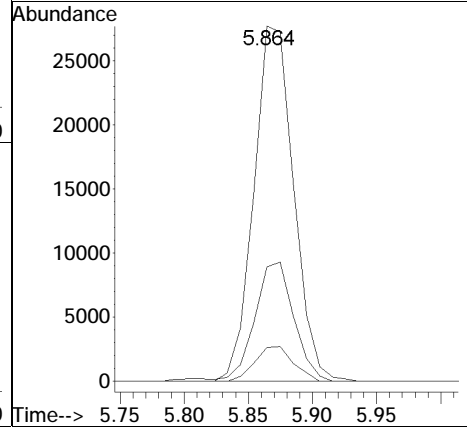
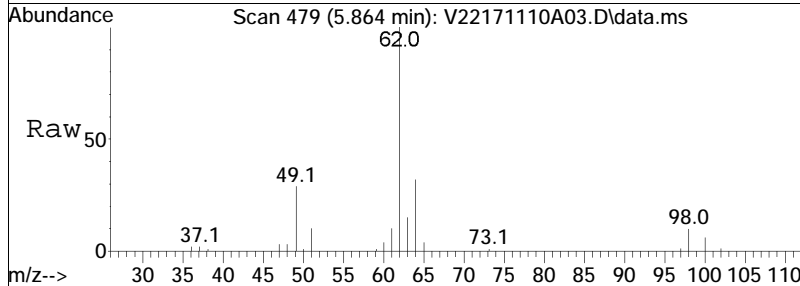
Tgt Ion	Resp	Lower	Upper
78	100		
77	24.4	15.4	32.0
51	18.3	9.8	20.4
52	17.4	9.2	19.2

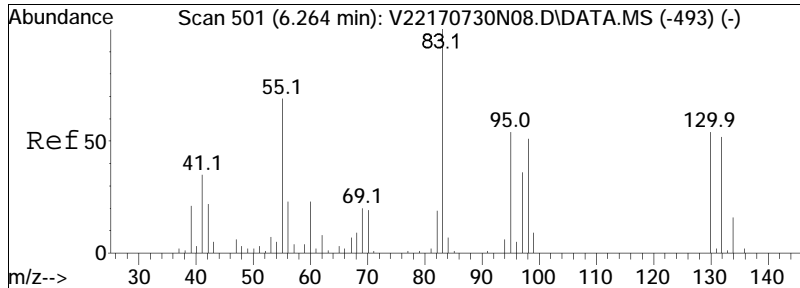




#47
 1,2-Dichloroethane
 Concen: 9.90 ug/L
 RT: 5.864 min Scan# 479
 Delta R.T. -0.019 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

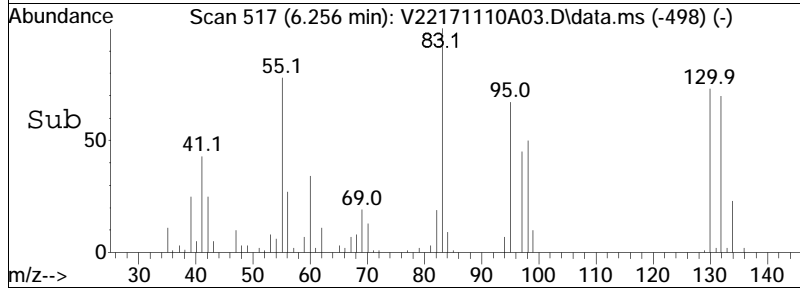
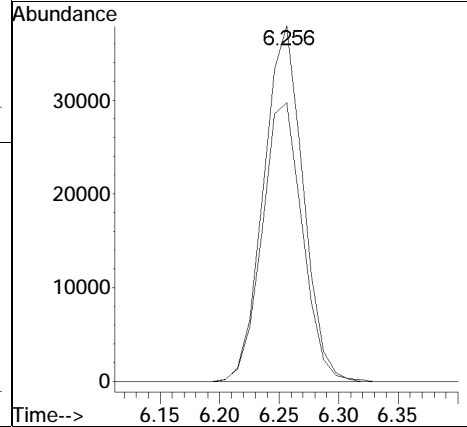
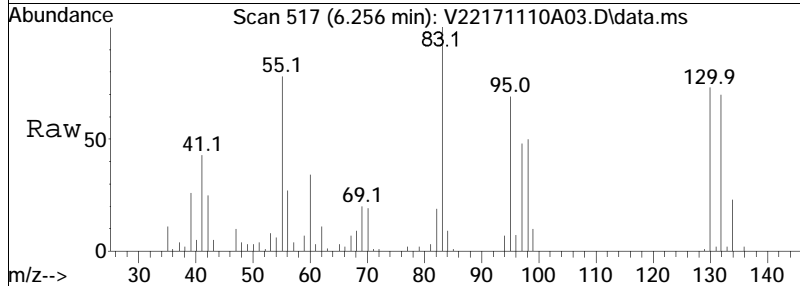
Tgt Ion	Resp	Lower	Upper
62	59780		
64	33.6	12.3	52.3
98	9.6	0.0	30.3

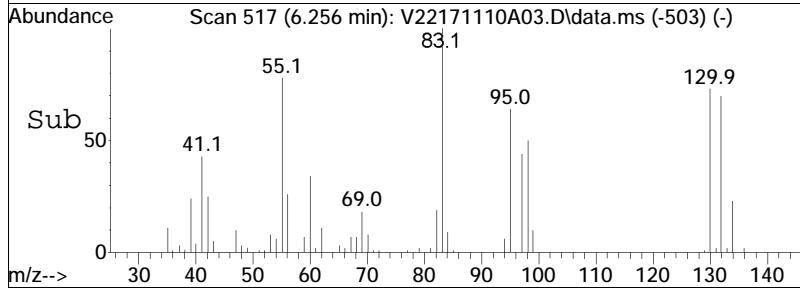
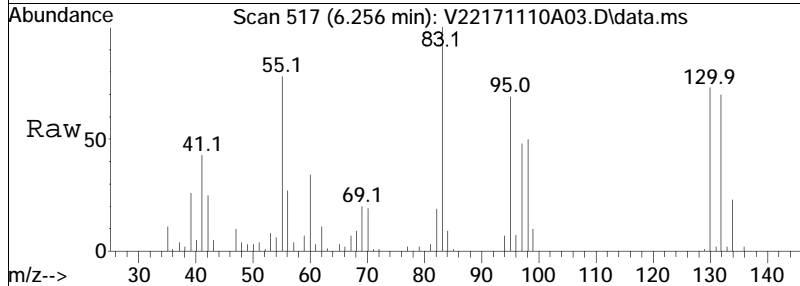
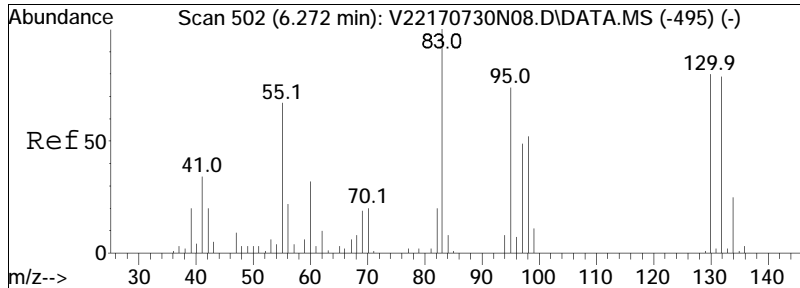




#50
 Methyl cyclohexane
 Concen: 9.57 ug/L
 RT: 6.256 min Scan# 517
 Delta R.T. -0.008 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

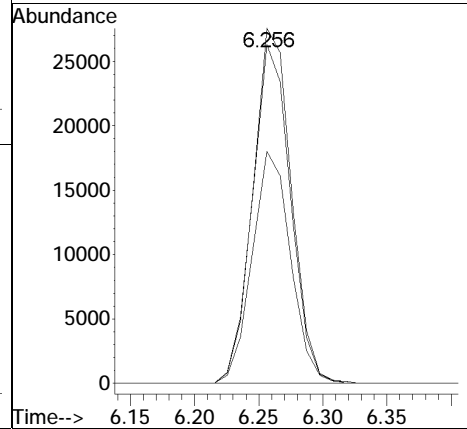
Tgt Ion	Resp	Lower	Upper
83	100		
55	80.5	55.4	83.2

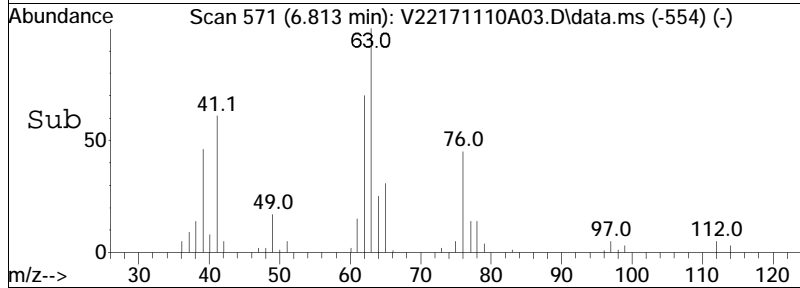
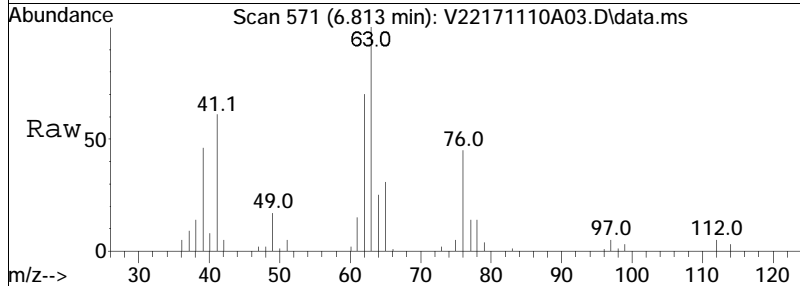
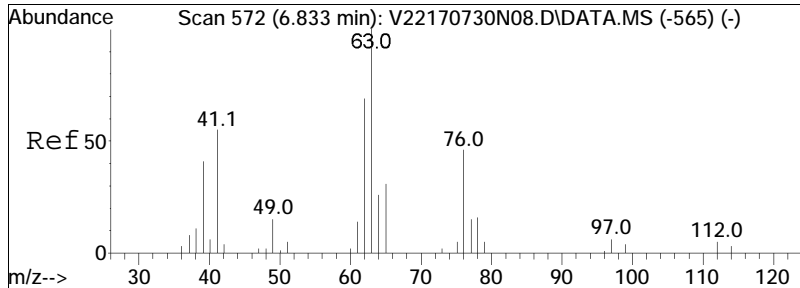




#51
 Trichloroethene
 Concen: 9.06 ug/L
 RT: 6.256 min Scan# 517
 Delta R.T. -0.016 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

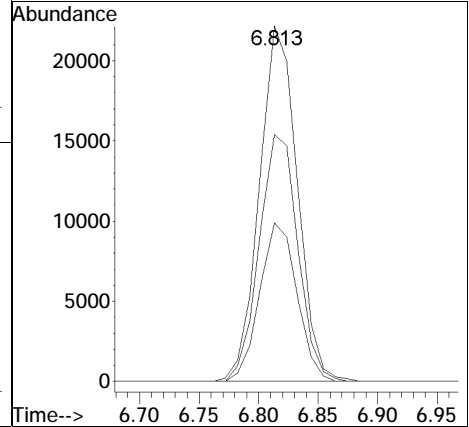
Tgt Ion	Resp	Lower	Upper
95	100		
97	69.2	55.0	82.4
130	105.5	89.2	133.8

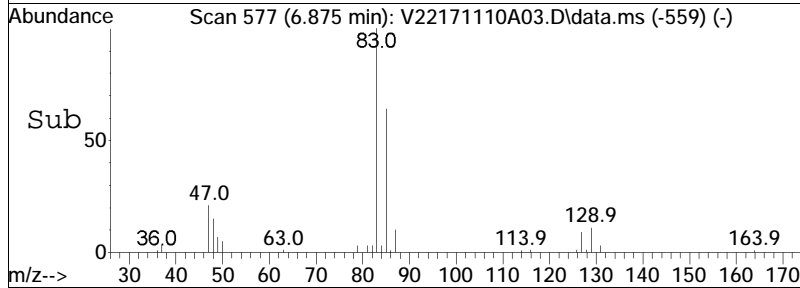
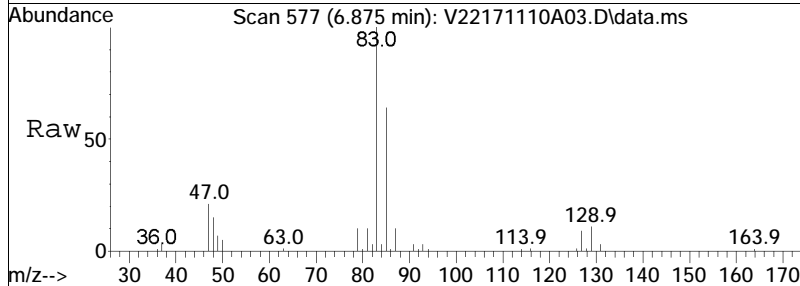
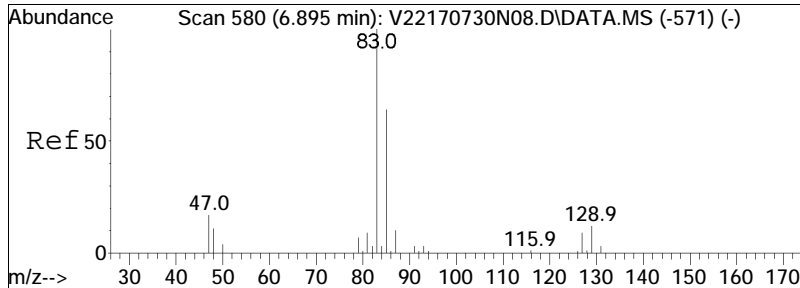




#54
 1,2-Dichloropropane
 Concen: 9.73 ug/L
 RT: 6.813 min Scan# 571
 Delta R.T. -0.020 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

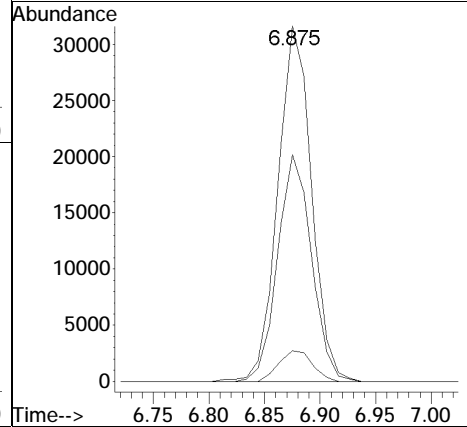
Tgt Ion:	Resp:	Lower	Upper
63	49120		
62	70.7	56.9	85.3
76	43.8	35.8	53.8

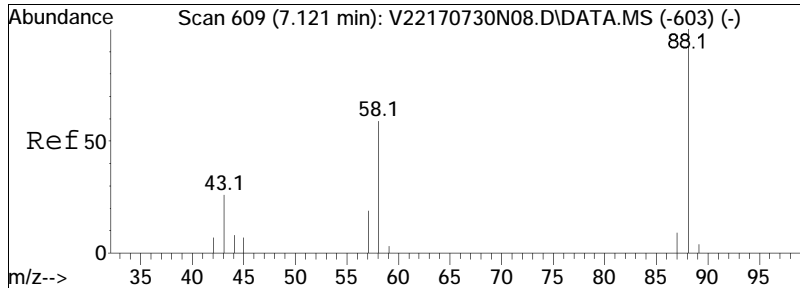




#57
 Bromodichloromethane
 Concen: 8.83 ug/L
 RT: 6.875 min Scan# 577
 Delta R.T. -0.012 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

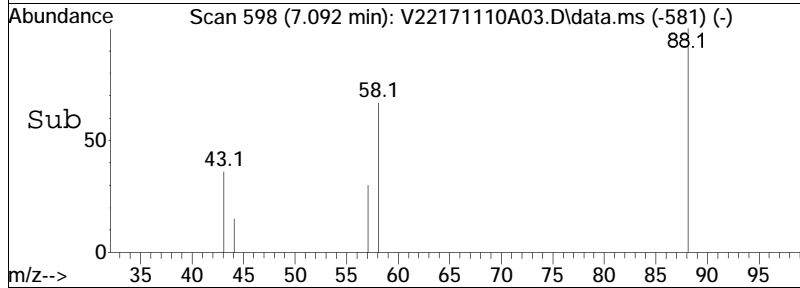
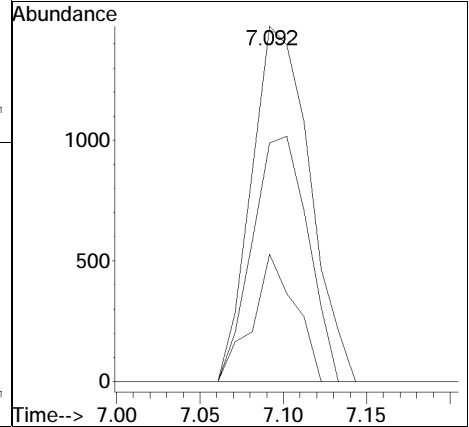
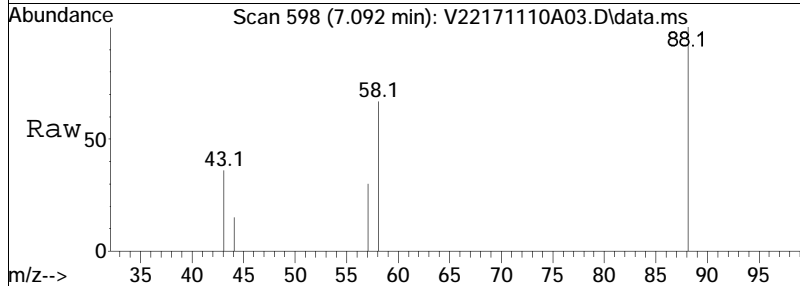
Tgt Ion	Resp	Lower	Upper
83	100		
85	64.3	51.6	77.4
127	8.7	7.4	11.0

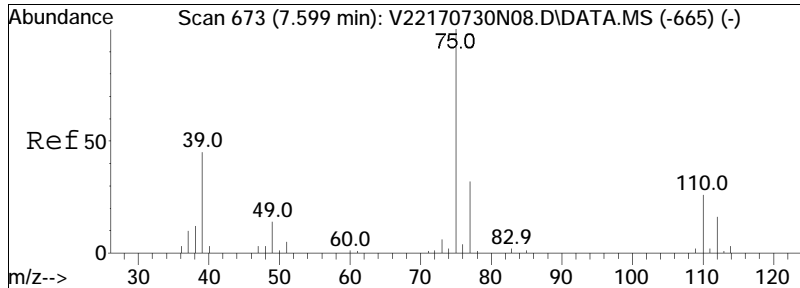




#60
 1,4-Dioxane
 Concen: 394.98 ug/L
 RT: 7.092 min Scan# 598
 Delta R.T. -0.021 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

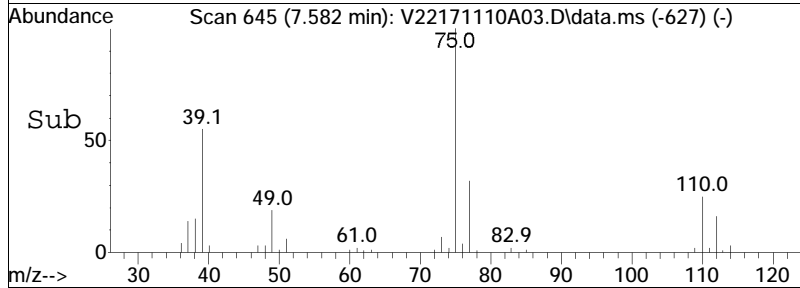
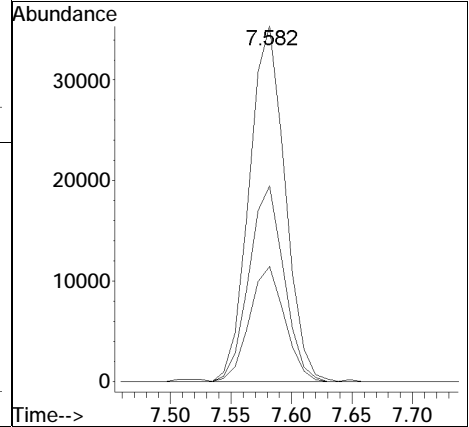
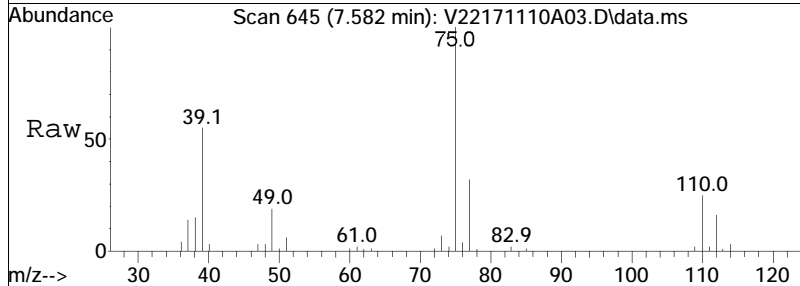
Tgt Ion:	88	Resp:	3582
Ion Ratio	100	Lower	Upper
58	65.9	43.3	64.9#
43	26.5	15.1	22.7#

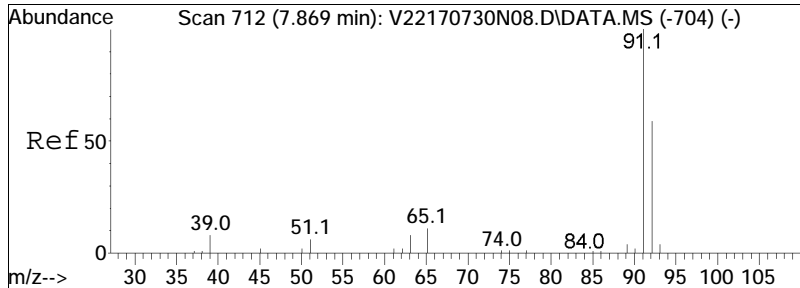




#61
 cis-1,3-Dichloropropene
 Concen: 8.39 ug/L
 RT: 7.582 min Scan# 645
 Delta R.T. -0.010 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

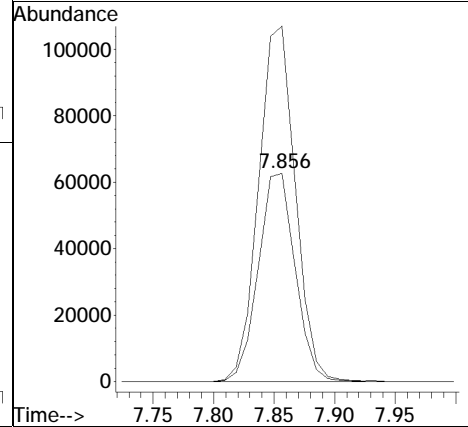
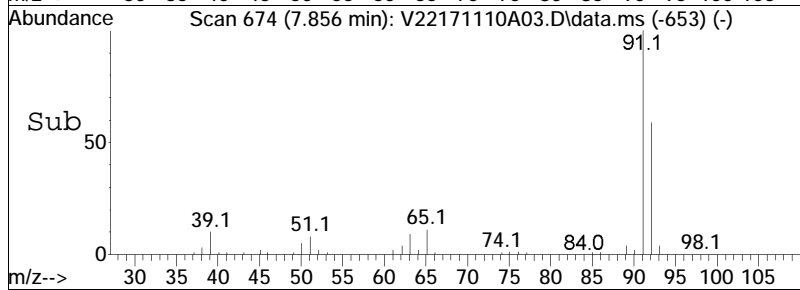
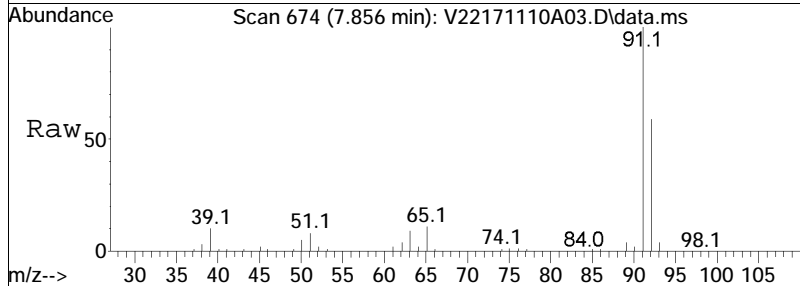
Tgt Ion	Resp	Lower	Upper
75	100		
77	31.7	25.6	38.4
39	53.6	35.4	53.0#

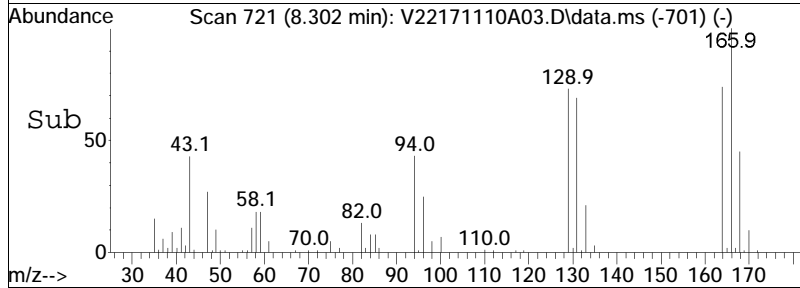
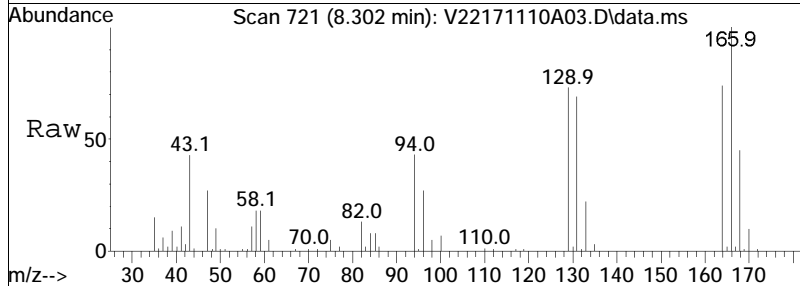
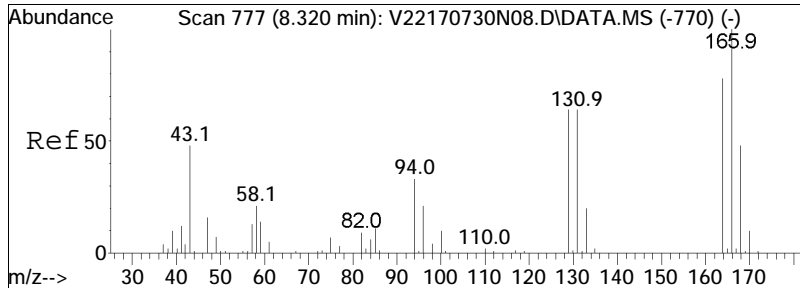




#64
 Toluene
 Concen: 9.60 ug/L
 RT: 7.856 min Scan# 674
 Delta R.T. -0.006 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

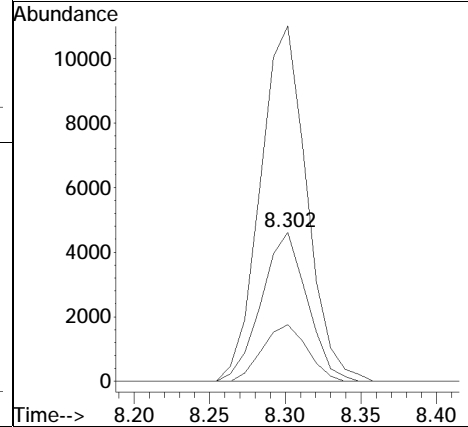
Tgt Ion	Resp	Lower	Upper
92	132514		
91	170.3	137.0	205.6

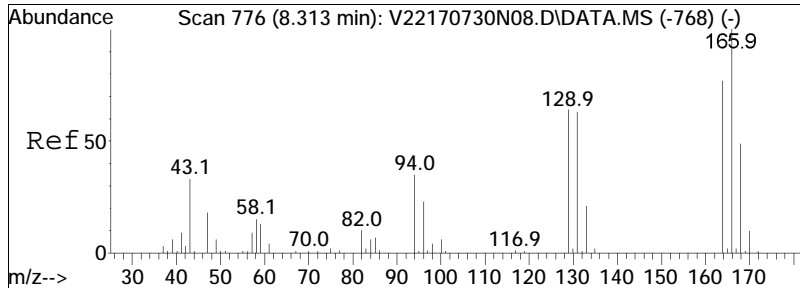




#65
 4-Methyl-2-pentanone
 Concen: 9.62 ug/L
 RT: 8.302 min Scan# 721
 Delta R.T. -0.011 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

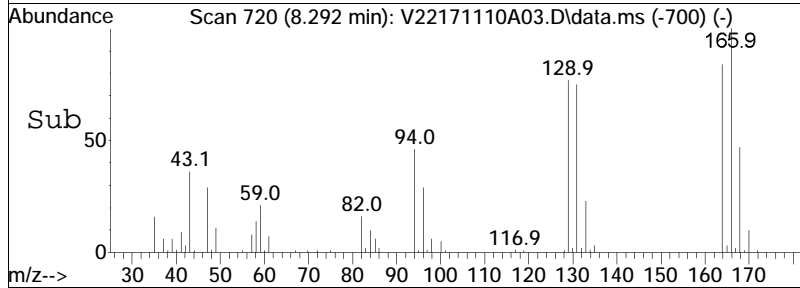
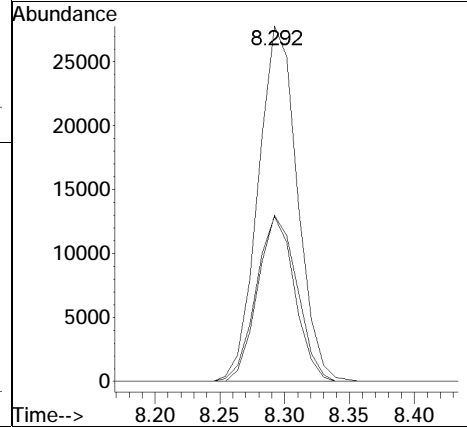
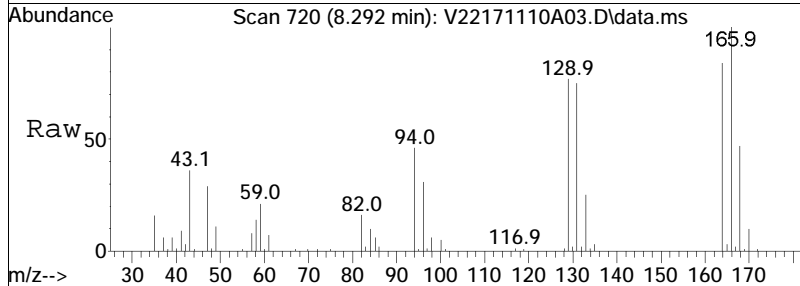
Tgt Ion:	58	100	43	Resp:	9714	Lower	Upper
Ion Ratio	100	37.4	241.8			36.2	272.8

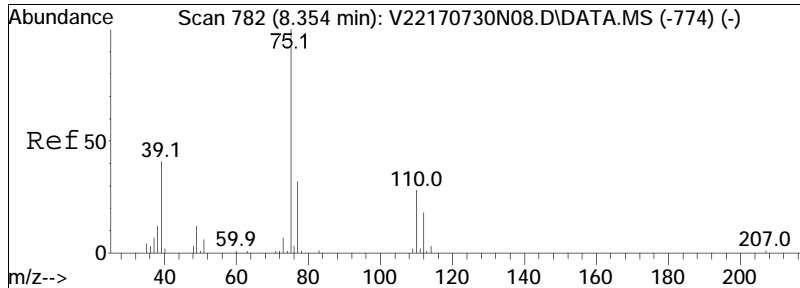




#66
 Tetrachloroethene
 Concen: 8.18 ug/L
 RT: 8.292 min Scan# 720
 Delta R.T. -0.014 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

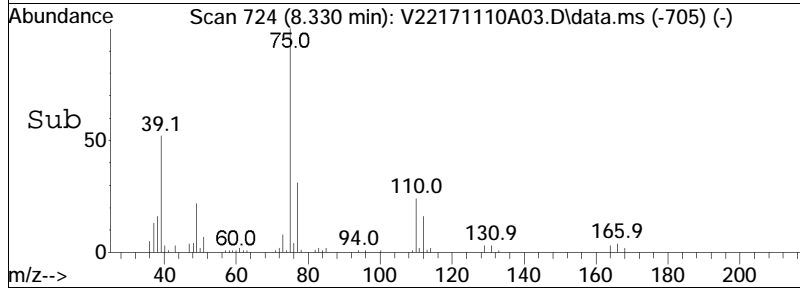
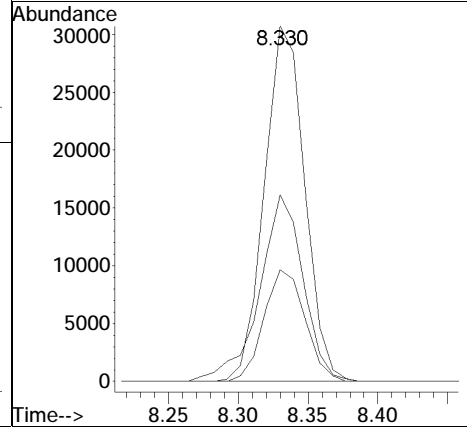
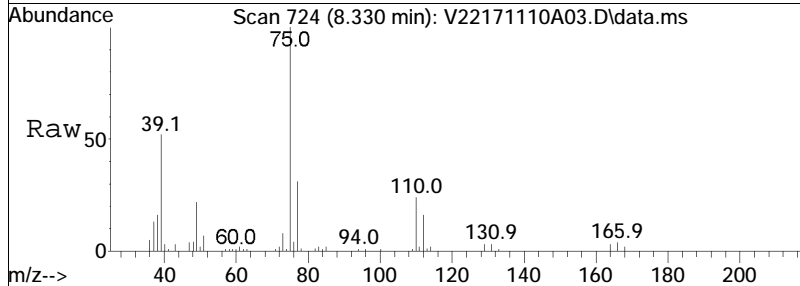
Tgt Ion	Resp	Lower	Upper
166	100		
168	46.7	27.8	67.8
94	45.6	16.7	56.7

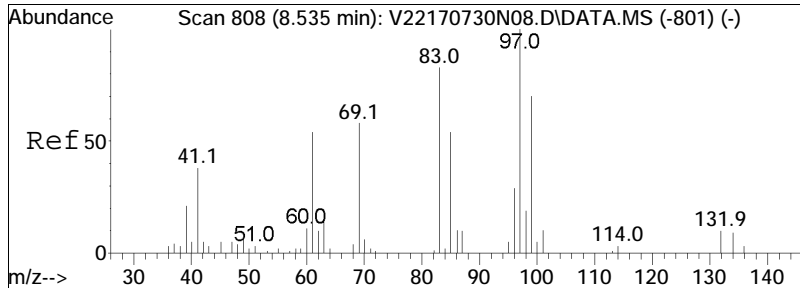




#68
 trans-1,3-Dichloropropene
 Concen: 9.03 ug/L
 RT: 8.330 min Scan# 724
 Delta R.T. -0.018 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

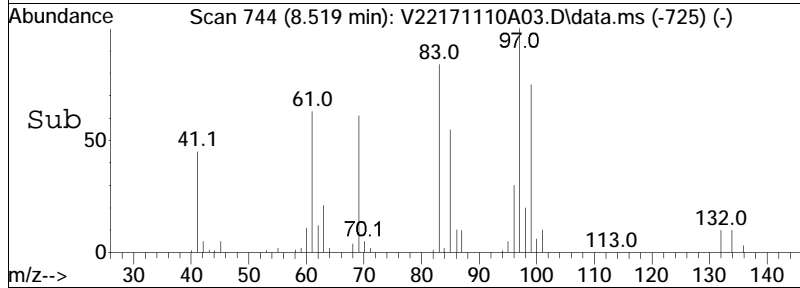
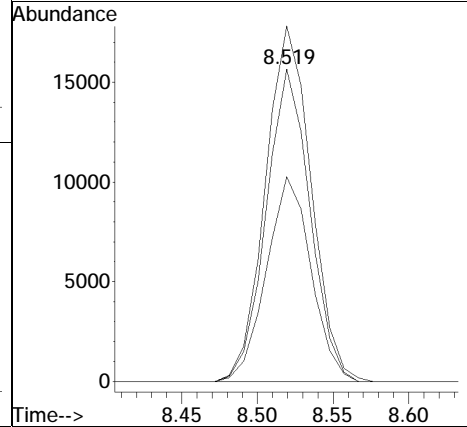
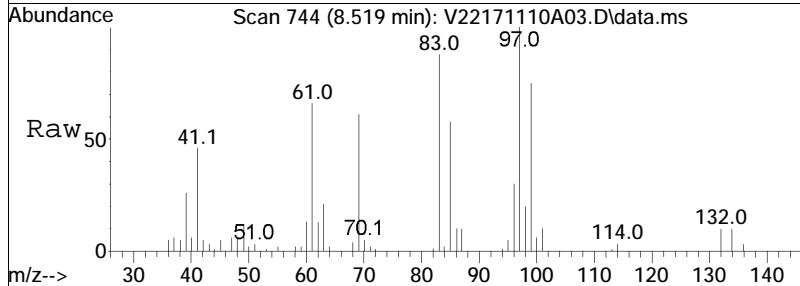
Tgt Ion:	75	Resp:	61629
Ion Ratio	Lower	Upper	
75	100		
77	32.1	11.9	51.9
39	56.9	27.4	67.4

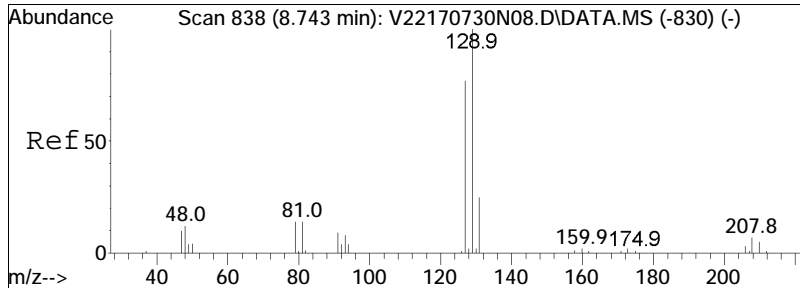




#71
 1,1,2-Trichloroethane
 Concen: 9.64 ug/L
 RT: 8.519 min Scan# 744
 Delta R.T. -0.016 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

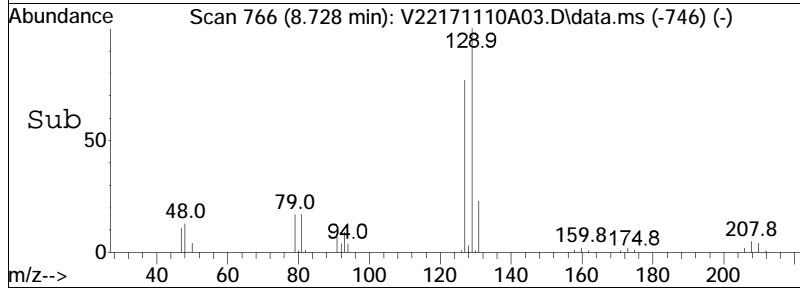
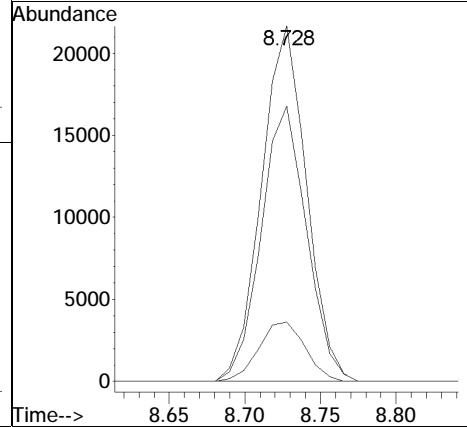
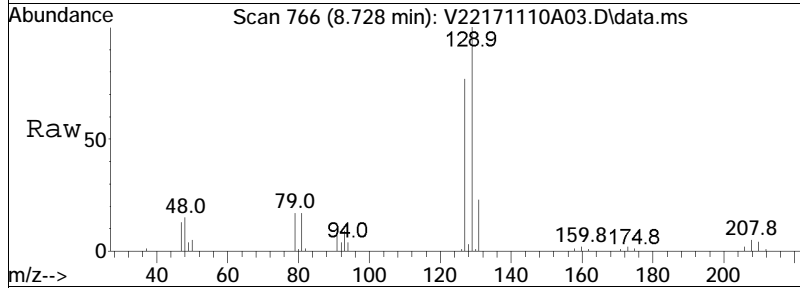
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
83	100		
97	118.9	103.4	143.4
85	66.8	47.9	87.9

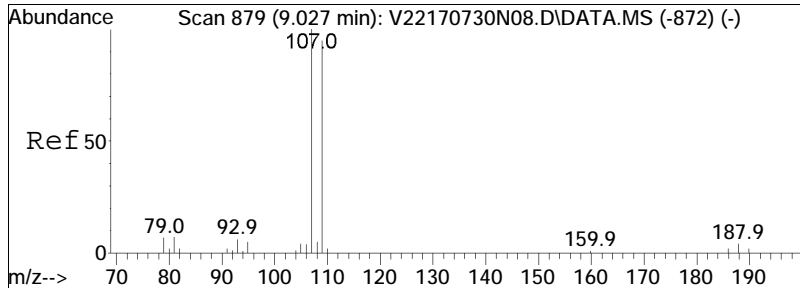




#72
 Chlorodibromomethane
 Concen: 8.69 ug/L
 RT: 8.728 min Scan# 766
 Delta R.T. -0.015 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

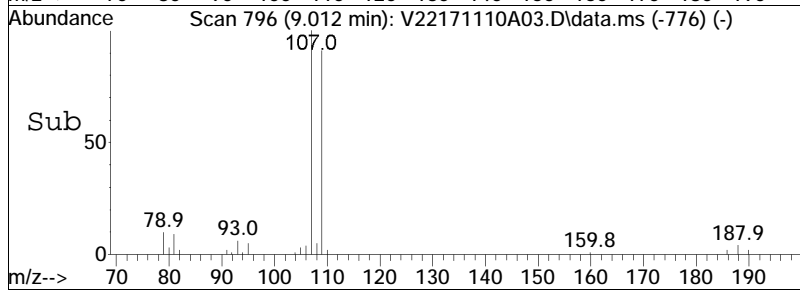
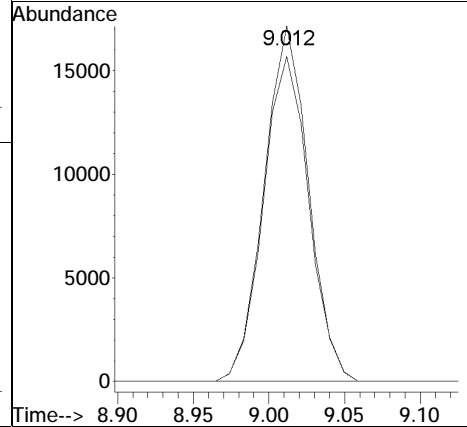
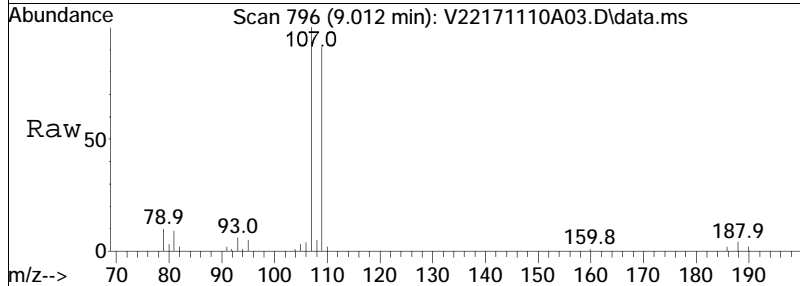
Tgt Ion	Resp	Lower	Upper
129	44777		
129	100		
81	17.3	0.0	33.8
127	78.1	57.1	97.1

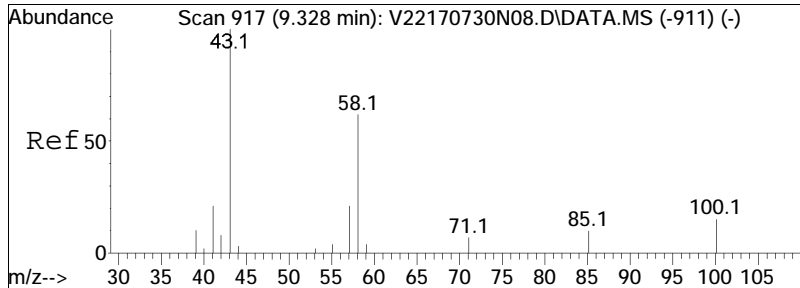




#74
 1,2-Dibromoethane
 Concen: 8.46 ug/L
 RT: 9.012 min Scan# 796
 Delta R.T. -0.015 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

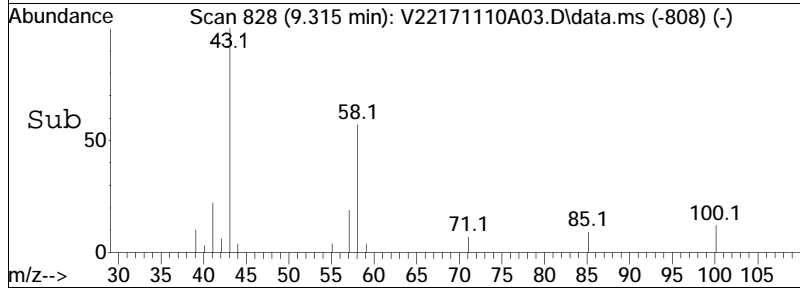
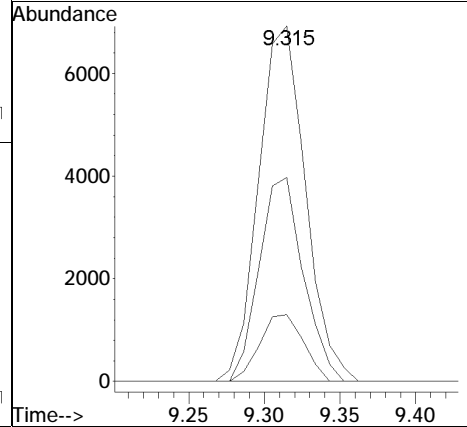
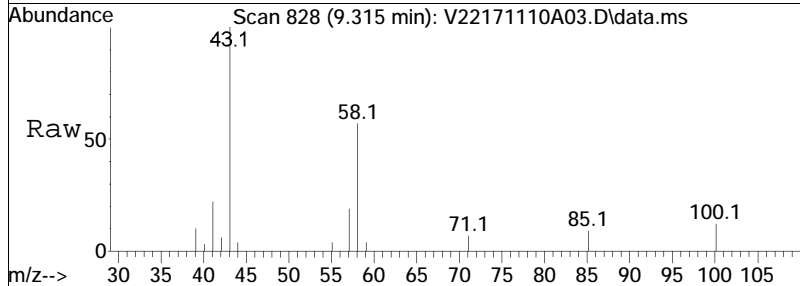
Tgt Ion	Resp	Lower	Upper
107	100		
109	94.0	75.1	112.7

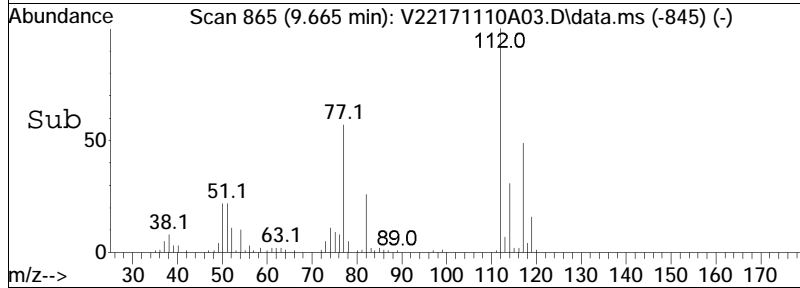
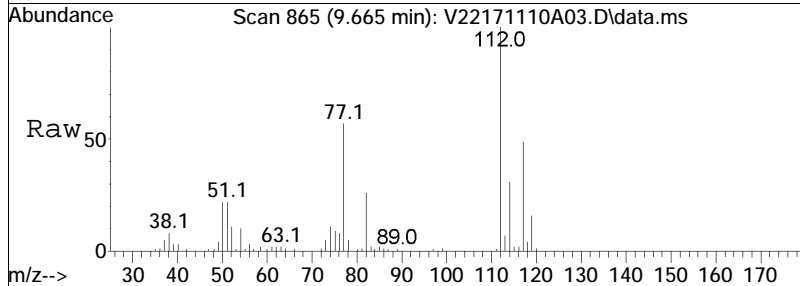
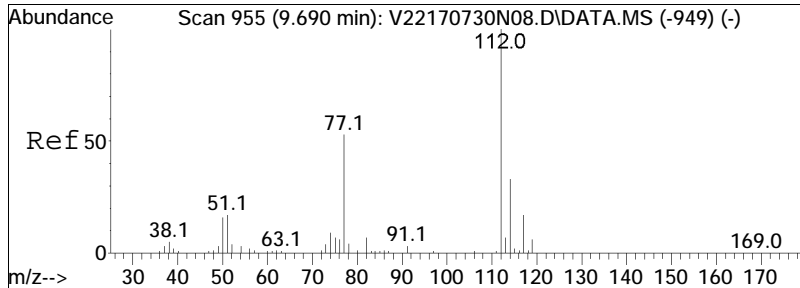




#76
 2-Hexanone
 Concen: 10.18 ug/L
 RT: 9.315 min Scan# 828
 Delta R.T. -0.013 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

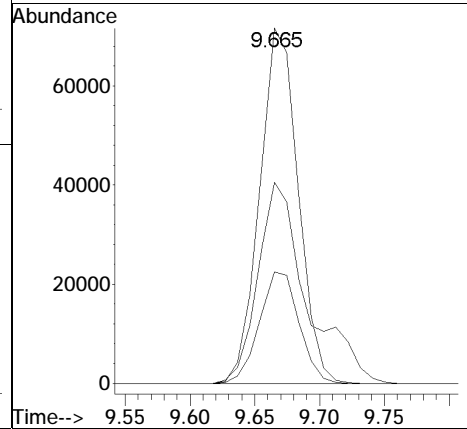
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
43	100		
58	54.0	47.6	71.4
57	17.6	16.6	24.8

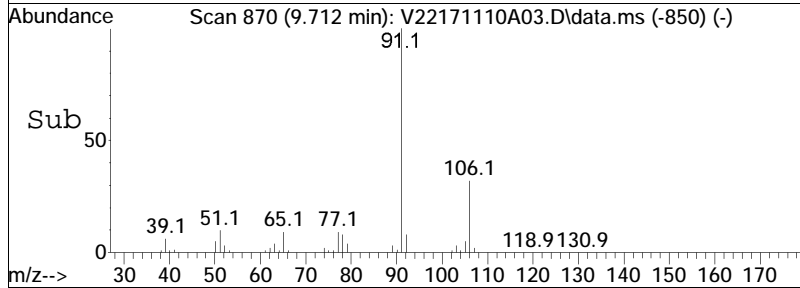
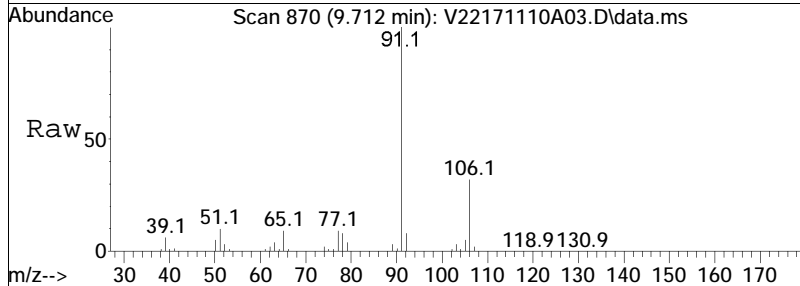
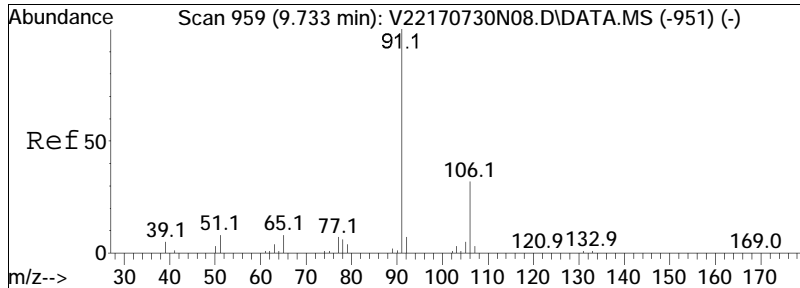




#77
 Chlorobenzene
 Concen: 9.20 ug/L
 RT: 9.665 min Scan# 865
 Delta R.T. -0.015 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

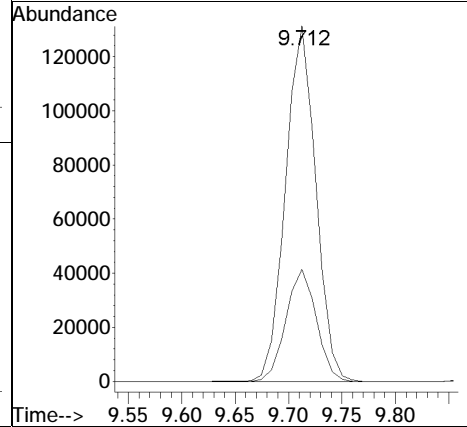
Tgt Ion	Resp	Lower	Upper
112	147750		
77	72.2	55.4	83.0
114	32.3	26.2	39.4

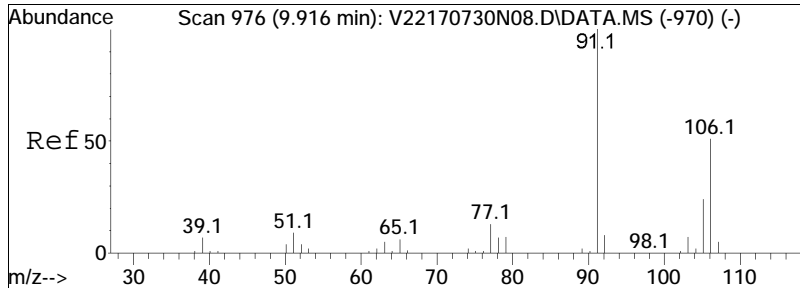




#78
 Ethylbenzene
 Concen: 9.56 ug/L
 RT: 9.712 min Scan# 870
 Delta R.T. -0.011 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

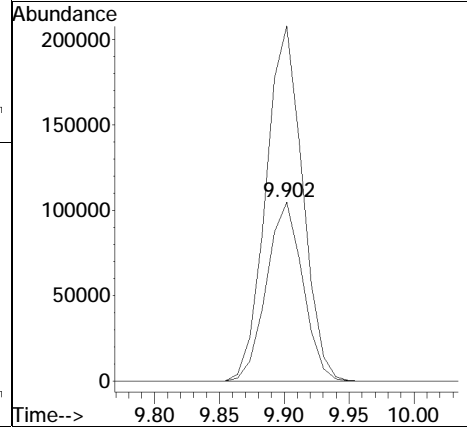
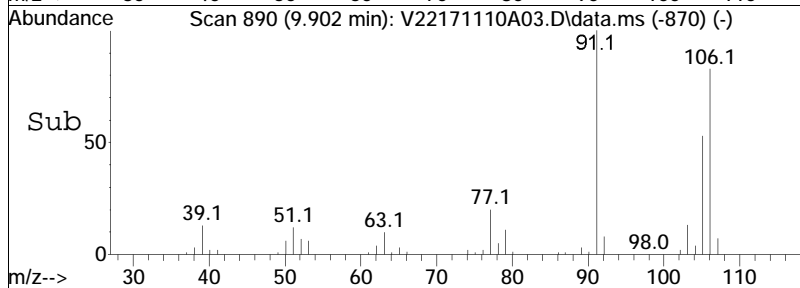
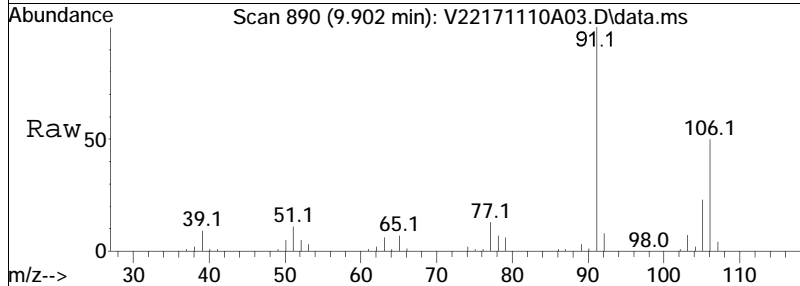
Tgt Ion:	91	Resp:	259381
Ion Ratio	Lower	Upper	
91	100		
106	31.6	25.8	38.6

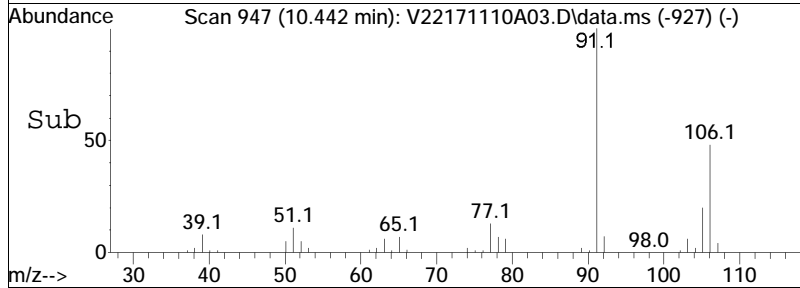
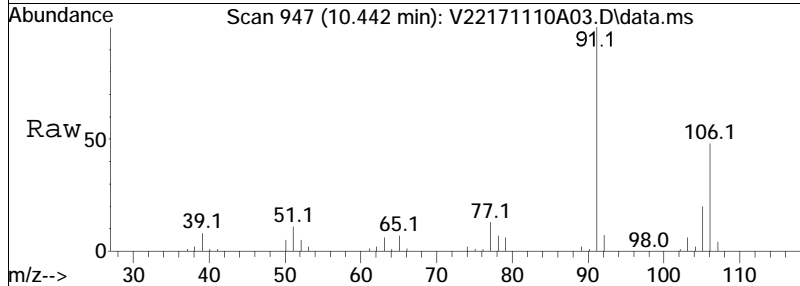
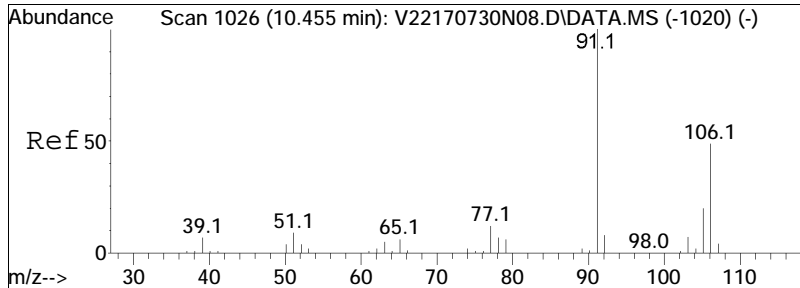




#80
 p/m Xylene
 Concen: 18.77 ug/L
 RT: 9.902 min Scan# 890
 Delta R.T. -0.014 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

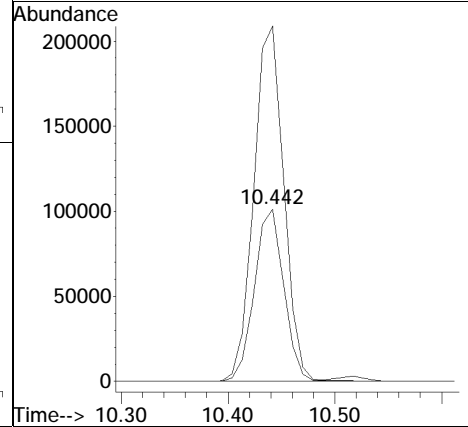
Tgt Ion	Resp	Lower	Upper
106	100		
91	199.8	156.0	234.0

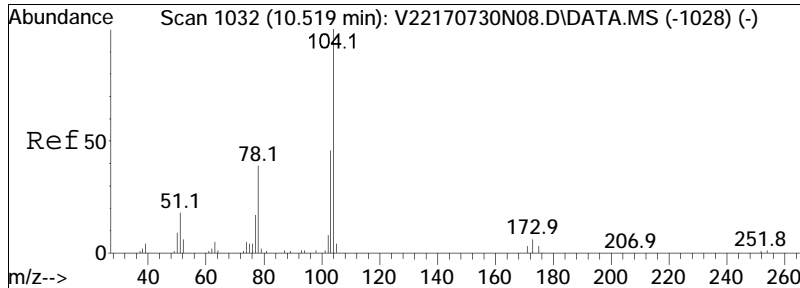




#81
 o Xylene
 Concen: 22.02 ug/L
 RT: 10.442 min Scan# 947
 Delta R.T. -0.013 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

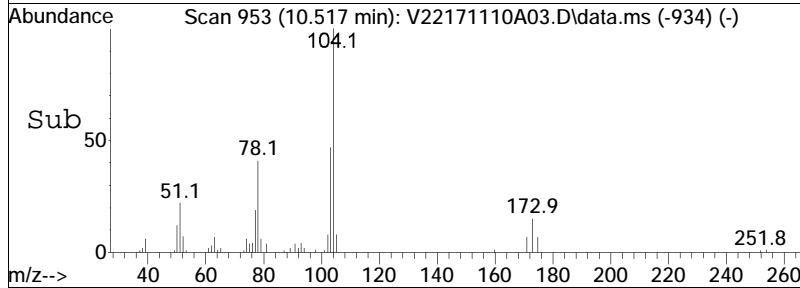
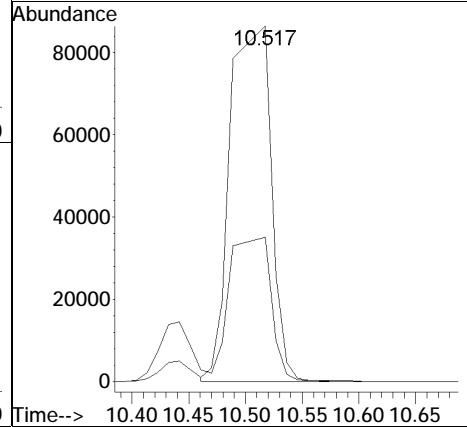
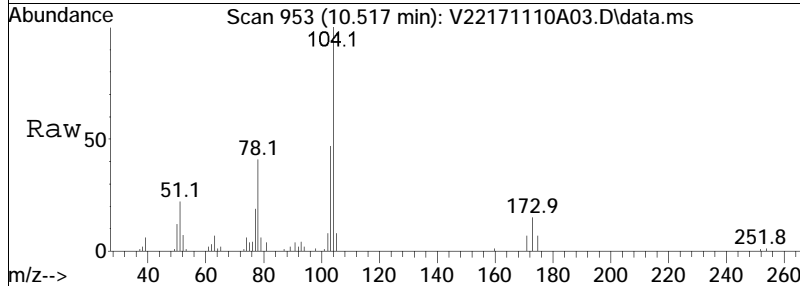
Tgt Ion	Resp	Lower	Upper
106	100		
91	185.2	164.0	246.0

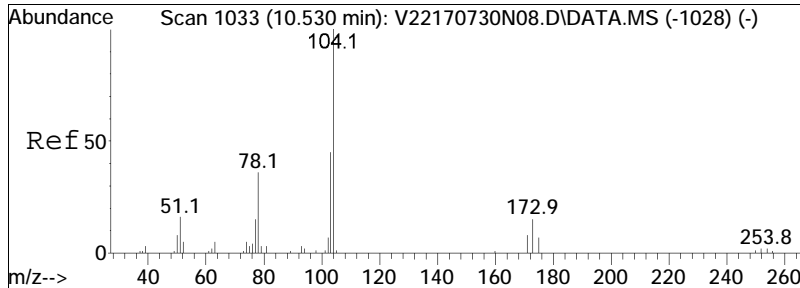




#82
 Styrene
 Concen: 8.89 ug/L
 RT: 10.517 min Scan# 953
 Delta R.T. -0.002 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

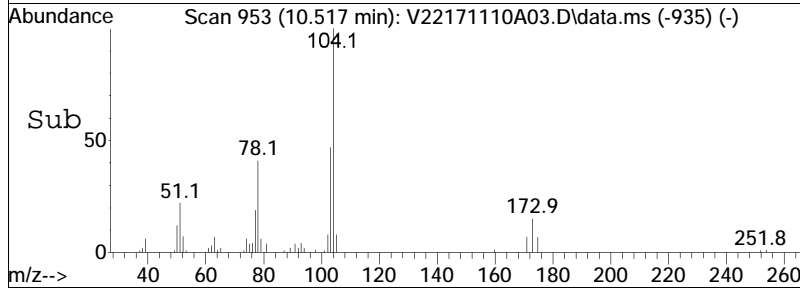
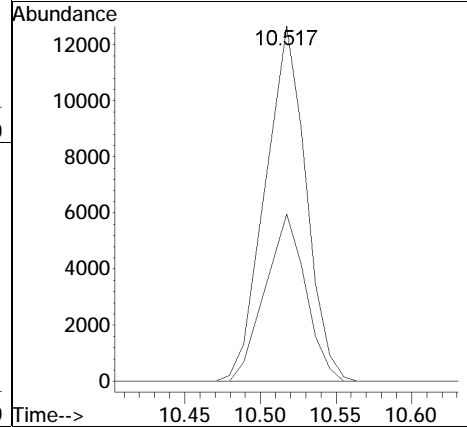
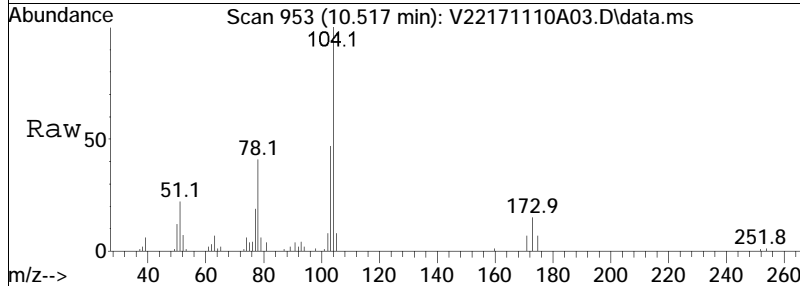
Tgt Ion	Resp	Lower	Upper
104	100		
78	42.9	32.1	48.1

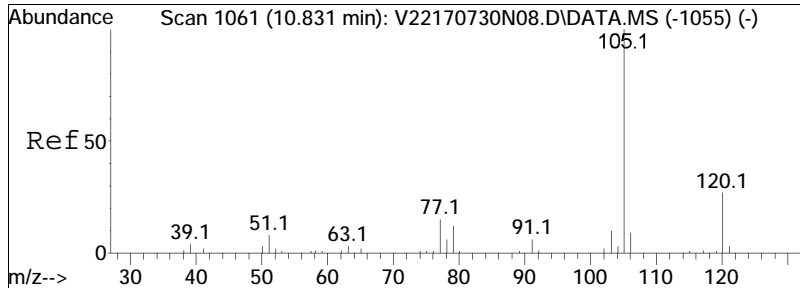




#84
 Bromoform
 Concen: 5.65 ug/L
 RT: 10.517 min Scan# 953
 Delta R.T. -0.013 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

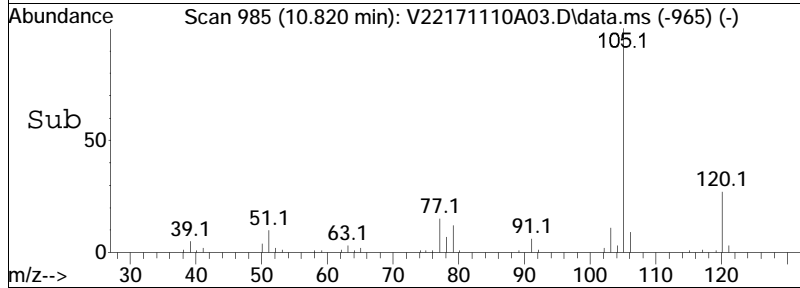
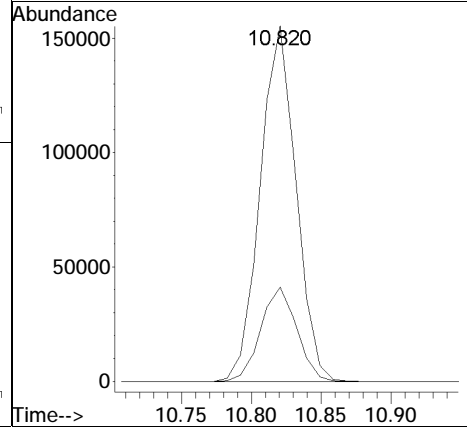
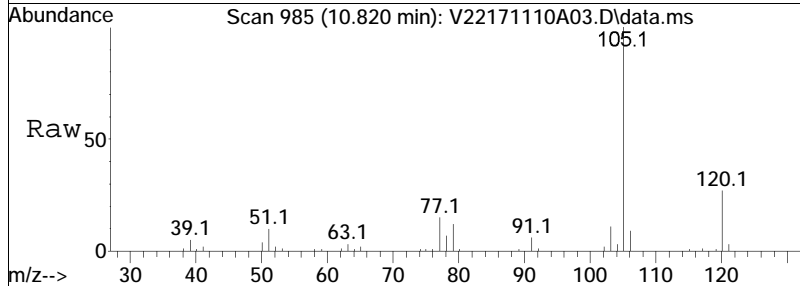
Tgt Ion:	173	Resp:	19013
Ion Ratio	Lower	Upper	
173	100		
175	48.3	29.3	69.3

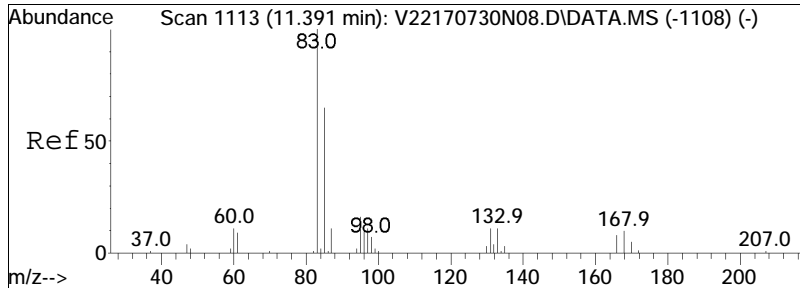




#86
 Isopropylbenzene
 Concen: 10.09 ug/L
 RT: 10.820 min Scan# 985
 Delta R.T. -0.011 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

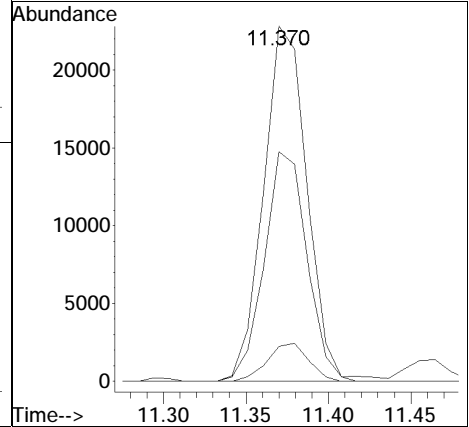
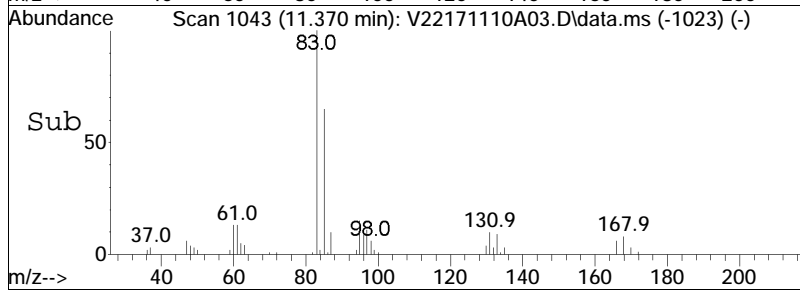
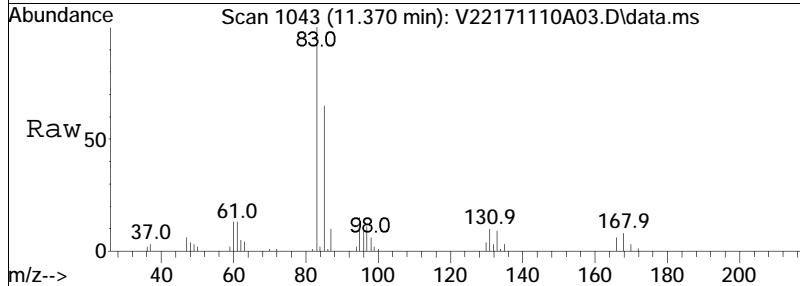
Tgt Ion	Resp	Lower	Upper
105	100		
120	26.7	7.7	47.7

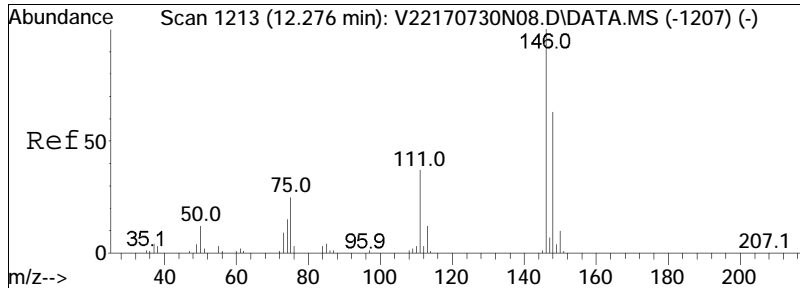




#91
 1,1,2,2-Tetrachloroethane
 Concen: 10.21 ug/L
 RT: 11.370 min Scan# 1043
 Delta R.T. -0.010 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

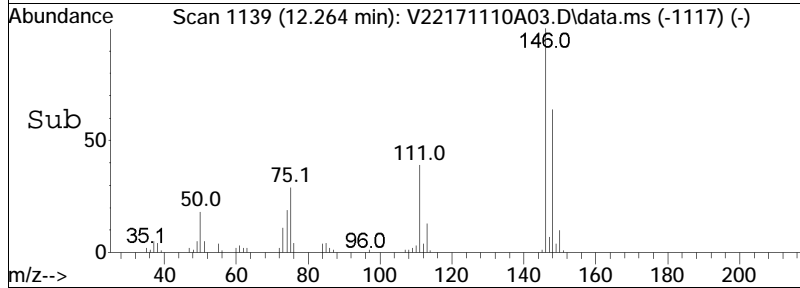
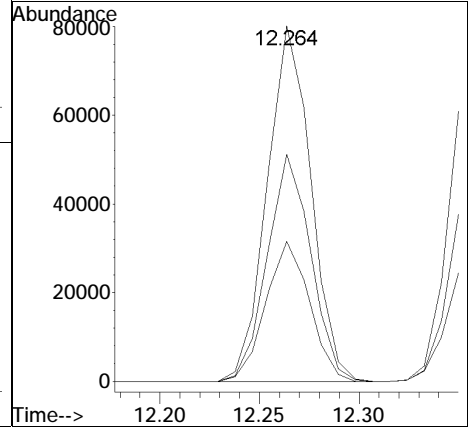
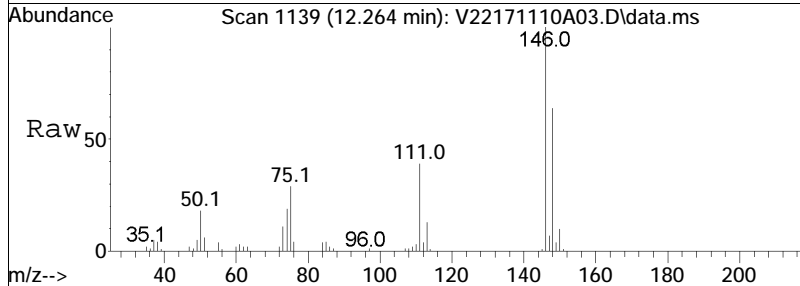
Tgt Ion	Resp	Lower	Upper
83	41560		
131	10.3	0.0	30.8
85	64.7	45.4	85.4

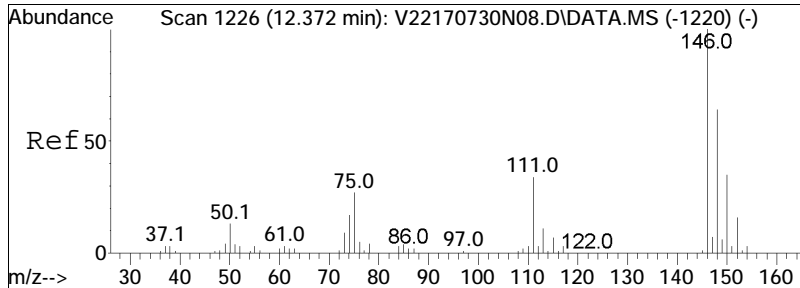




#104
 1,3-Dichlorobenzene
 Concen: 9.51 ug/L
 RT: 12.264 min Scan# 1139
 Delta R.T. -0.012 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

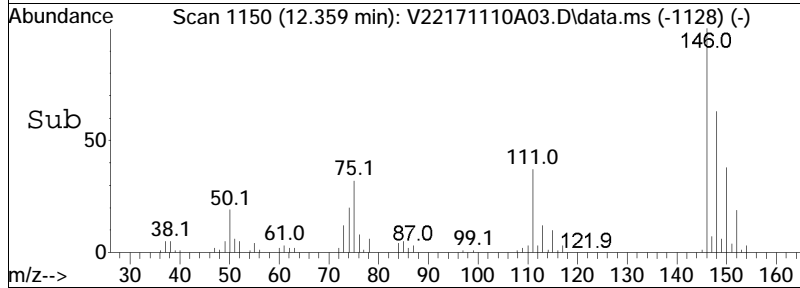
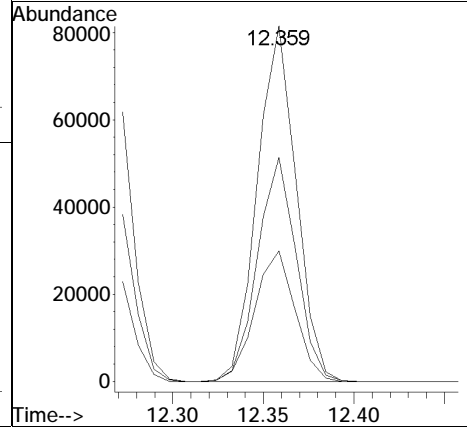
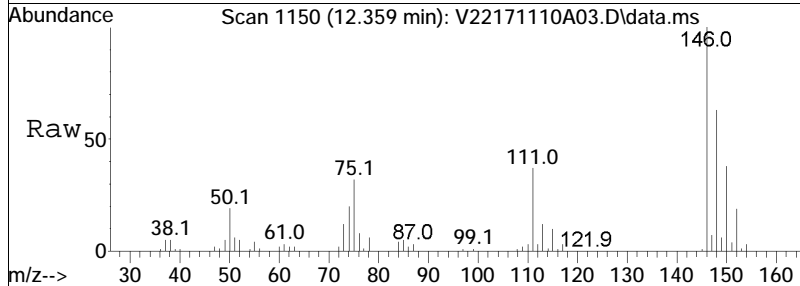
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	24.0	49.8
148	63.6	41.8	86.8

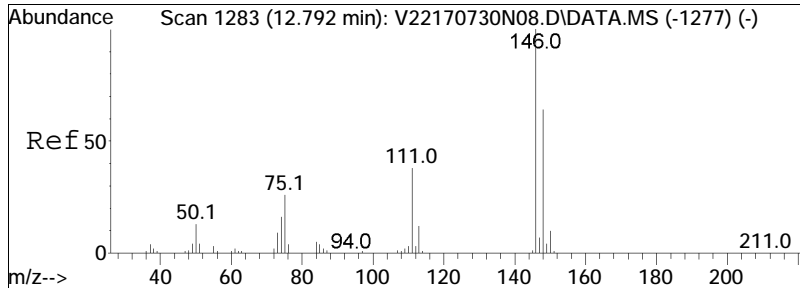




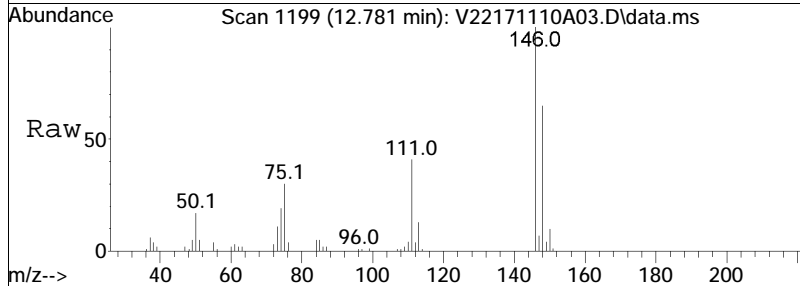
#105
 1,4-Dichlorobenzene
 Concen: 9.59 ug/L
 RT: 12.359 min Scan# 1150
 Delta R.T. -0.013 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	28.9	43.3
148	62.9	51.4	77.2

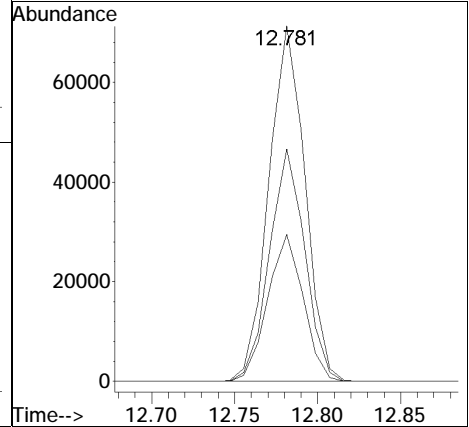
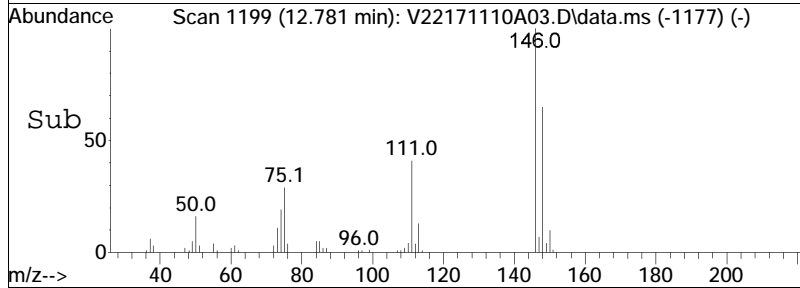


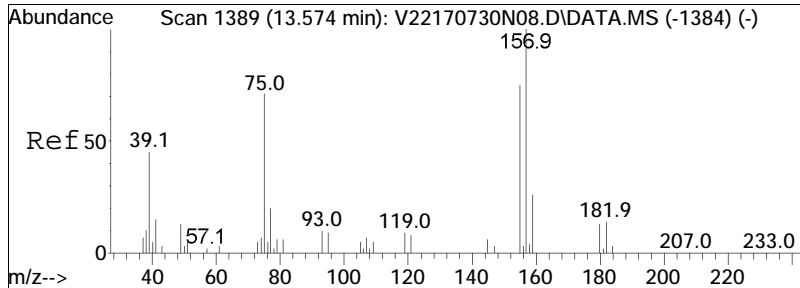


#108
 1,2-Dichlorobenzene
 Concen: 9.36 ug/L
 RT: 12.781 min Scan# 1199
 Delta R.T. -0.011 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am



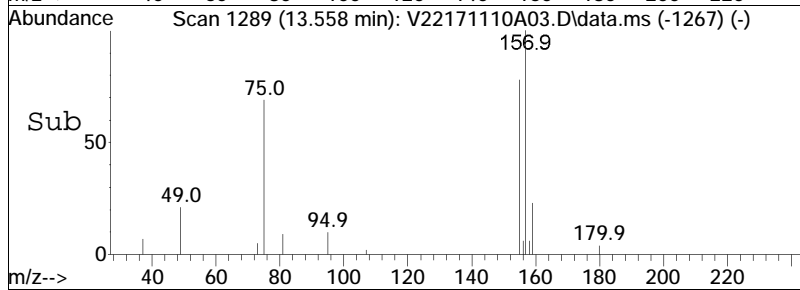
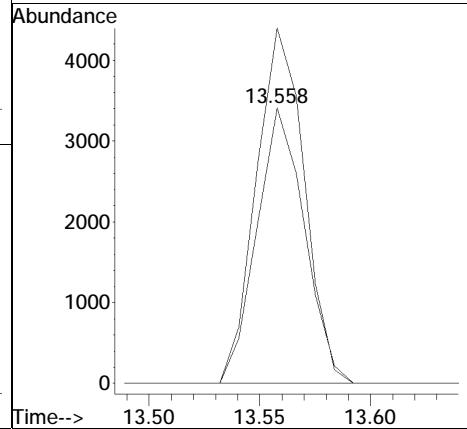
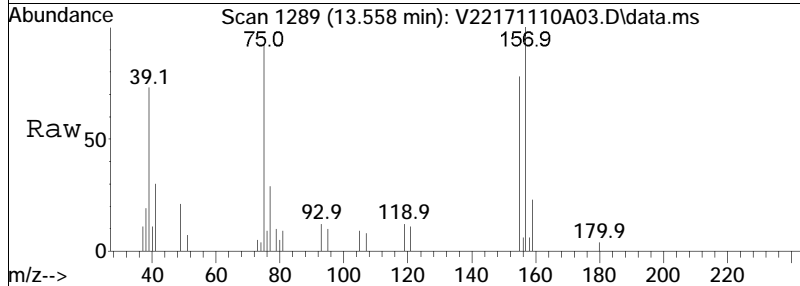
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.7	24.8	51.6
148	64.0	42.2	87.6

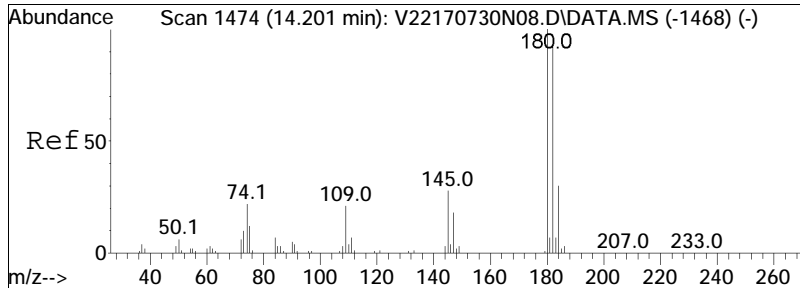




#110
 1,2-Dibromo-3-chloropropane
 Concen: 7.62 ug/L
 RT: 13.558 min Scan# 1289
 Delta R.T. -0.009 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

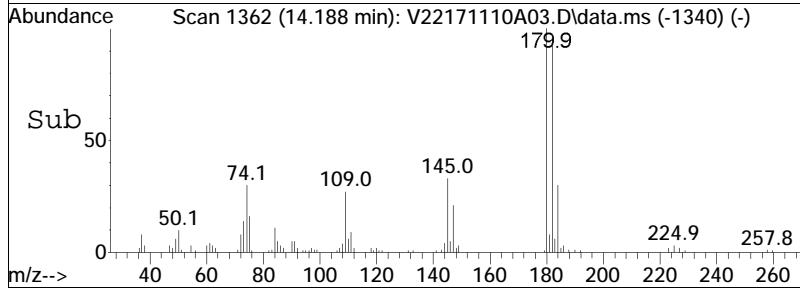
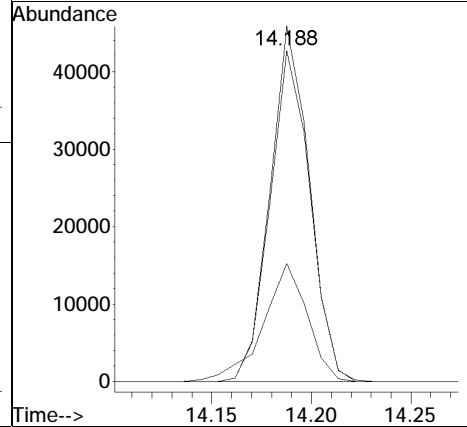
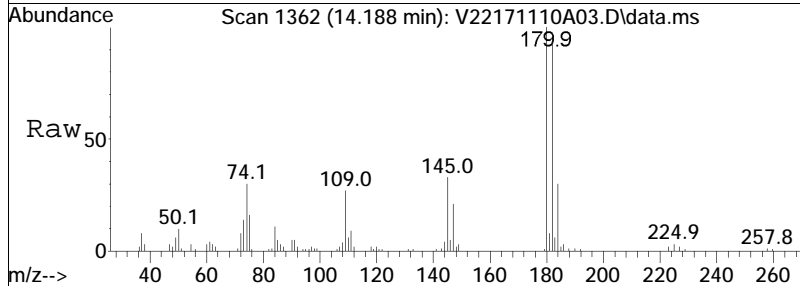
Tgt Ion:	155	Resp:	5121
Ion Ratio	Lower	Upper	
155	100		
157	129.5	102.3	153.5

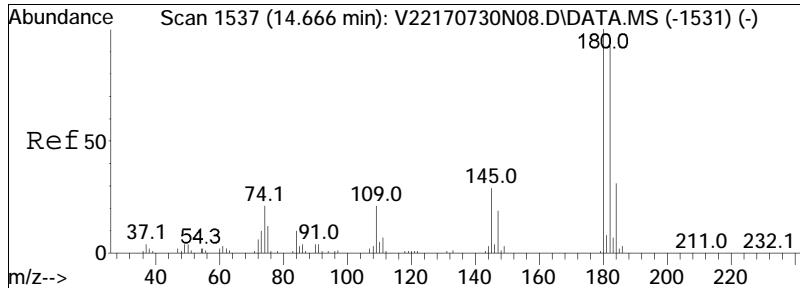




#113
 1,2,4-Trichlorobenzene
 Concen: 7.41 ug/L
 RT: 14.188 min Scan# 1362
 Delta R.T. -0.013 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

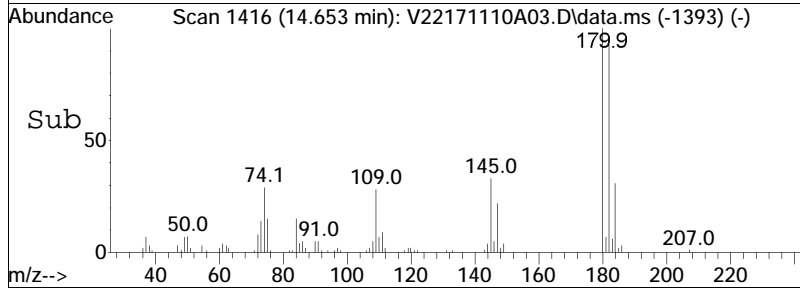
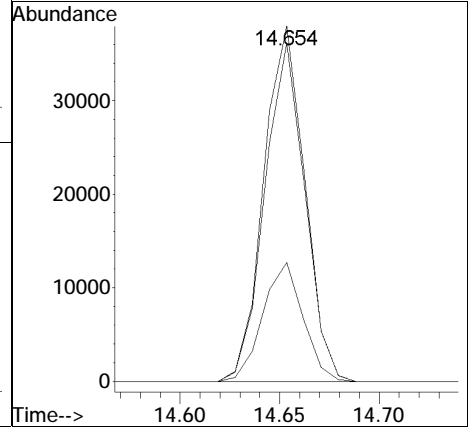
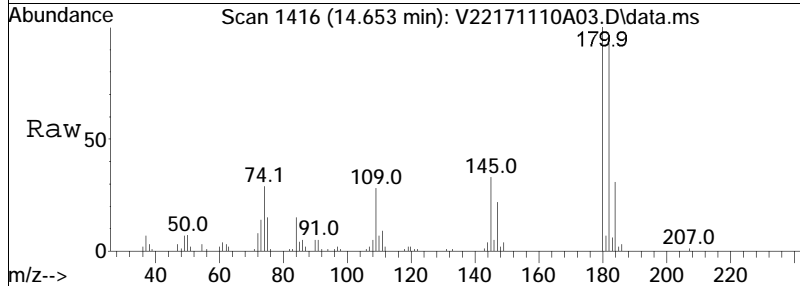
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.6	114.8
145	37.2	25.5	38.3





#115
 1,2,3-Trichlorobenzene
 Concen: 7.10 ug/L
 RT: 14.653 min Scan# 1416
 Delta R.T. -0.006 min
 Lab File: V22171110A03.D
 Acq: 10 Nov 2017 09:14 am

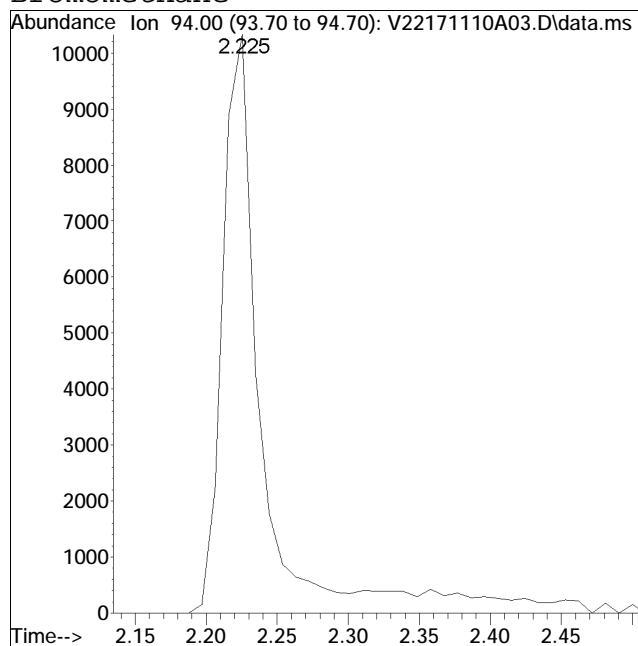
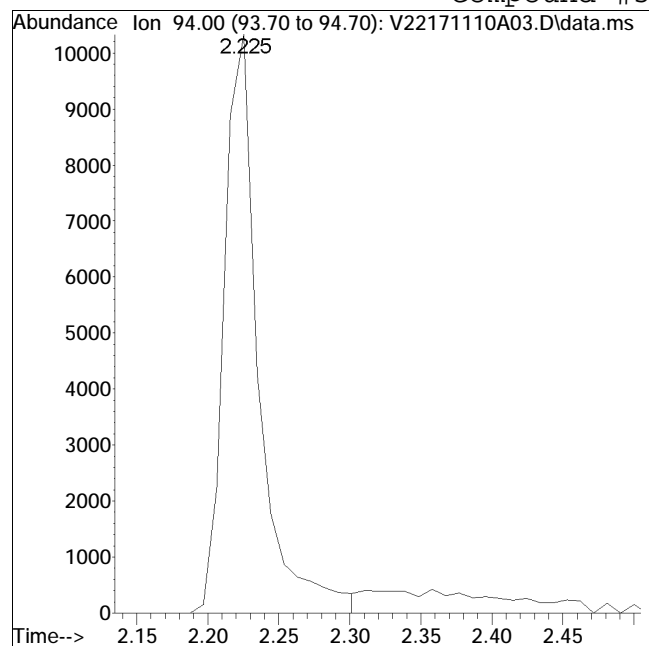
Tgt Ion	Resp	Lower	Upper
180	100		
182	93.4	76.0	114.0
145	32.8	23.8	35.8



Manual Integration Report

Data Path : I:\VOLATILES\VOA122\2017\1QMethod : V122_170804A_8260.m
Data File : V22171110A03.D Operator : VOA122:PD
Date Inj'd : 11/10/2017 9:14 am Instrument : VOA122
Sample : WG1061830-4,31,10,10 Quant Date : 11/10/2017 10:04 am

Compound #5: Bromomethane



Original Peak Response = 17580

Manual Peak Response = 20484 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: $Amt * DF * Uf * (1/Vo)$

Where:

DF = Dilution Factor

Vo = Sample Volume Purged (mL)

Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: $Amt * DF * (1/Wt)$

Where:

DF = Dilution Factor

Wt = Weight of Sample (g)



ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Nov 13 2017, 10:04 am

Work Group: WG1061830 for Department: 31 GC/MS - Volatiles

Created: 10-NOV-17 Due: Operator: MKS

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1740098-01	WP-2	S NYTCL-8260-R2	WATER	DONE	U	1116	1113	S0	Vial-B
L1740098-02	TRIP BLANK	S NYTCL-8260-R2	WATER	DONE	U	1116	1113	S0	Vial-B
L1740575-01	EFFLUENT LINDE 1	S NYTCL-8260	WATER	DONE	U	1120	1113	S0	Vial-B
L1740596-01	BMW-13A	S NYTCL-8260-R2	WATER	DONE	U	1120	1113	S0	Vial-B
L1740596-02	MW-10A	S NYTCL-8260-R2	WATER	DONE	U	1120	1113	S0	Vial-B
L1740596-03	BMW-19A	S NYTCL-8260-R2	WATER	DONE	U	1120	1113	S0	Vial-B
L1740596-04	MW-5A	S NYTCL-8260-R2	WATER	DONE	U	1120	1113	S0	Vial-B
L1740596-05	BMW-16A	S NYTCL-8260-R2	WATER	DONE	U	1120	1113	S0	Vial-B
L1740596-06	EB01-20171106	S NYTCL-8260-R2	WATER	DONE	U	1120	1113	S0	Vial-B
L1740596-07	TRIP BLANK	S NYTCL-8260-R2	WATER	DONE	U	1120	1113	S0	Vial-B
L1740603-01	C241175_MW09D_110617	S NYTCL-8260	WATER	DONE	U	1120	1113	S0	Vial-B
L1740603-02	C241175_MW46S_110617	S NYTCL-8260	WATER	DONE	U	1120	1113	S0	Vial-B
L1740603-03	C241175_GWTB16_11061	S NYTCL-8260	WATER	DONE	U	1120	1113	S0	Vial-B
L1740674-01	TRIP BLANK	S NYTCL-8260	WATER	DONE	U	1020	1113	S0	Vial-B
L1740674-04	FIELD BLANK	S NYTCL-8260	WATER	DONE	U	1121	1113	S0	Vial-B
WG1061830-1	MS BFB Tune Standard	S NYTCL-8260	WATER	DONE	U				
WG1061830-1	MS BFB Tune Standard	S NYTCL-8260-R2	WATER	DONE	U				
WG1061830-2	Continuing Calibrati	S NYTCL-8260	WATER	DONE	U				
WG1061830-2	Continuing Calibrati	S NYTCL-8260-R2	WATER	DONE	U				
WG1061830-3	Laboratory Control	S NYTCL-8260	WATER	DONE	U				
WG1061830-3	Laboratory Control	S NYTCL-8260-R2	WATER	DACQ	U				
WG1061830-4	LCS Duplicate	S NYTCL-8260	WATER	DONE	U				
WG1061830-4	LCS Duplicate	S NYTCL-8260-R2	WATER	DACQ	U				
WG1061830-5	Laboratory Method Bl	S NYTCL-8260	WATER	DONE	U				
WG1061830-5	Laboratory Method Bl	S NYTCL-8260-R2	WATER	DACQ	U				

Comments:

WG1061830-4 WG1061830-3

Inst: VOA122
 Initials: NL
 Date: 08/04/17
 Run: A

BFB: 6213
 IS/SS: 6230
 ICAL: V6266, V6264
 ICV: V6233, V6257, V6255, V6231, V6256, V6232

Method
 GC: 8260_WATER
 Autosampler: 8260WATER
 Concentrator: 8260



QC: _____ Seq: _____

Vial	Data File	Sample	obs
1	V22170804ABF1	BFB	
1	V22170804A01	BLK	
2	V22170804A02	BLK	
3	V22170804A03	ISTDL11	
4	V22170804A04	ISTDL1	
5	V22170804A05	ISTDL1	
6	V22170804A06	ISTDL2	
7	V22170804A07	ISTDL2	
8	V22170804A08	ISTDL3	
9	V22170804A09	ISTDL4	
10	V22170804A10	ISTDL6	
11	V22170804A11	ISTDL8	
12	V22170804A12	ISTDL10	
13	V22170804A13	BLK	
14	V22170804A14	BLK	
15	V22170804A15	BLK	
16	V22170804A16	BLK	
17	V22170804A17	BLK	
18	V22170804A18	CSTD3	
19	V22170804A19	CSTD3	
20	V22170804A20	BLK	

Inst: VOA122
 Initials: PD
 Date: 11/10/17
 Run: A

BFB: V6372
 IS/SS: V6383
 ICAL: V6266, V6264
 ICV: V6233, V6257, V6255, V6231, V6256, V6232

Method
 GC: 8260_WATER
 Autosampler: 8260WATER
 Concentrator: 8260



QC: _____ Seq: _____

Vial	Data File	Sample	obs
1	V22171110ABF1	BFB TUNE 07:54	
1	V22171110A01	8260 CCAL	
2	V22171110A02	8260 CCAL LCS	
3	V22171110A03	8260 CCAL LCSD	
4	V22171110A04	BLK	
5	V22171110A05	METHOD BLK	
6	V22171110A06	I1740575-01,31,10,10,,c NYSTARS	pH<2
7	V22171110A07	I1740603-03,31,10,10,,a NYCURVE	pH<2
8	V22171110A08	I1740603-02,31,10,10,,h NYCURVE	pH<2
9	V22171110A09	I1740603-01,31,10,10,,l NYCURVE	pH<2
10	V22171110A10	I1740674-04,31,10,10,,a NYTCL	pH<2
11	V22171110A11	I1740674-01,31,10,10,,a NYTCL	pH<2
12	V22171110A12	I1740098-01,31,10,10,,a NYSTARS	pH<2
13	V22171110A13	I1740098-02,31,10,10,,a NYSTARS	pH<2
14	V22171110A14	I1740596-01D,31,0.2,10,,a NYCURVE	pH<2
15	V22171110A15	I1740596-03D,31,0.5,10,,a NYCURVE	pH<2
16	V22171110A16	I1740596-02,31,10,10,,a NYCURVE	pH<2
17	V22171110A17	I1740596-04,31,10,10,,a NYCURVE	pH<2
18	V22171110A18	I1740596-05,31,10,10,,a NYCURVE	pH<2
19	V22171110A19	I1740596-06,31,10,10,,a NYCURVE	pH<2
20	V22171110A20	I1740596-07,31,10,10,,a NYCURVE	pH<2
21	V22171110A21	I1740038-03,31,10,10,,a 8260NH	pH<2
22	V22171110A22	I1740038-04,31,10,10,,a 8260NH	pH<2
23	V22171110A23	I1740039-01,31,10,10,,a 8260NH	pH<2